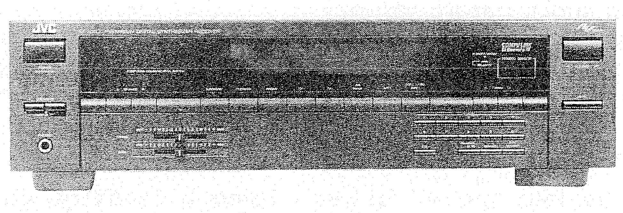
JVC

SERVICE MANUAL

COMPUTER CONTROLLED RECEIVER

RX-304BK/RX-304LBK
MODEL No. RX-305TN/RX-305LTN



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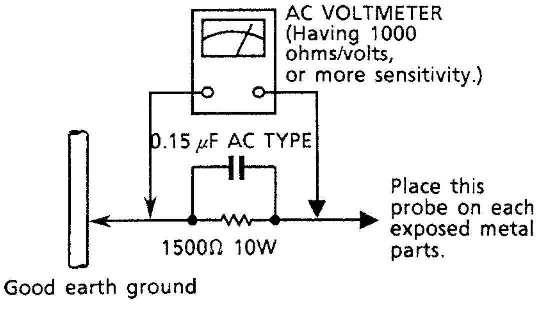
No. 20215
Dec. 1990

Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characateristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute repalcement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been retuned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform and isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, contorl shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10 W resistor paralleled by a 0.15 µF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal parts, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor.
     Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Specifications

AMPLIFIER SECTION

Output power
(CD IN → SP. OUT)
2-CHANNEL OPERATION **:50 watts per channel, min. RMS, both channels driven into 8 ohms from 40 Hz to 20 kHz, with no more than 0.03% total harmonic distortion.**
50 watts per channel, min. RMS, both channels driven, into 8 ohms at 1kHz(DIN).
Intermodulation distortion : 0.03% at 50 watts

Input sensitivity / impedance
PHONO : 2.5mV / 47k ohms
TAPE 1 PLAY, TAPE 2 / VIDEO SOUND PLAY, CD : 200mV / 47k ohms
Recording output level : 200mV
Frequency response
PHONO (RIAA equalization) : 20 Hz — 20kHz ± 1dB
TAPE 1 PLAY, TAPE 2 / VIDEO SOUND PLAY, CD : 20 Hz — 20kHz ± 1dB
Signal-to-noise ratio
PHONO : 70dB ('66IHF)
78 dB ('78 IHF, REC OUT)
TAPE 1 PLAY, TAPE2 / VIDEO SOUND PLAY, CD : 91 dB ('66IHF),
: 80 dB ('78 IHF)
Tone controls
BASS : ± 8dB (100Hz)
TREBLE : ± 8dB (10kHz)

FM TUNER SECTION (IHF)

Tuning range : 87.5 MHz — 108.0 MHz
Usable sensitivity : Mono 10.8 dBf (0.95μV / 75 ohms)
50 dB quieting sensitivity : Mono 16.3dBf (1.8μV / 75 ohms)
Stereo 38.3 dBf (22.5 μV / 75 ohms)
Signal-to-noise ratio (IHF-A net, at 85dBf) : Mono 80 dB
Stereo 73 dB
Total harmonic distortion (1 kHz) : Mono 0.15%
Stereo 0.2%
Frequency response : 30Hz — 15kHz , (+0.5 dB, -3 dB)
Capture ratio (85 dBf) : 1.5 dB
Alternate channel selectivity : 60 dB (± 400kHz)
Stereo separation : 40 dB (at 1 kHz)

AM TUNER SECTION

MW

Tuning range

Area	Channel space	
	9kHz	10kHz
U.S.A. Canada	—	530kHz~1710kHz
Continental Europe, U.K.	522kHz~1629kHz	—
Italy	522kHz~1629kHz	—
Australia	522kHz~1629kHz	—
Other Area	531kHz~1602kHz	530kHz~1600kHz

Total harmonic distortion : 0.5%* (100 mV / m)

Sensitivity : 30 μV* (external antenna)
300 μV / m* (loop antenna)
Signal-to-noise ratio : 50 dB* (100mV / m)
Selectivity : 25 dB (± 9kHz, ± 10 kHz)

LW

Tuning range

Area	Channel Space (1kHz)
U.S.A. Canada	—
Continental Europe, U.K.	144kHz~353kHz
Italy	144kHz~290kHz
Australia	—
Other Area	—

Sensitivity
Loop antenna : 600μV / m at 245kHz
External antenna : 100μV at 245kHz
Signal-to-noise ratio (100 mV / m) : 50dB at 245kHz
Selectivity : 32dB ± 9kHz at 245kHz

GENERAL

Dimensions (W x H x D) : 17-3 / 16" x 5" x 13"
(435 x 127 x 329 mm)
Weight : 13.7 lbs. (6.2 kg)

* Measured at 1,000 kHz

Design and specifications subject to change without notice.

POWER SPECIFICATIONS

Area	Line Voltage & Frequency	Power Consumption
U.S.A. Canada	AC120V~, 60Hz	200 watts, 240 VA
Continental Europe	AC230V~, 50Hz	130 watts
U.K. Australia	AC240V~, 50Hz	300 watts
Other Area	AC110/127/220/240V~ ,selectable, 50/60Hz	130 watts

COMPU LINK Remote Control System

COMPU LINK
Remote
Control System

JVC's exclusive "COMPU LINK" remote control system connects equipment with JVC COMPU LINK-1/SYNCHRO terminals to the remote control system. The equipment can be controlled from the remote control unit, or other functions (such as autmatic source selection and synchronized recording) can be used.

■ Automatic source selection

Pressing SOURCE keys will automatically put the corresponding source equipment into the PLAY mode. When the PLAY key on source equipment is pressed, the corresponding SOURCE key is automatically set to that source. Other source equipment shuts down about 5 seconds later.

Note:
Automatic source selection does not work on the DAT deck connected to the TAPE 2/VIDEO SOUND terminals.

■ Synchronized recording

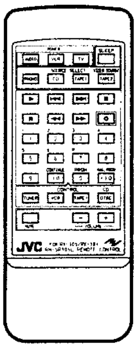
Synchronized recording permits a tape deck to start recording automatically in synchronism with a CD player or turntable. Set the tape deck in the REC/PAUSE mode and press the PLAY key on the CD player or turntable. The tape deck will enter the recording mode automatically, starting synchronized recording.
Synchronized recording stops automatically after the CD player or turntable has stopped and the tape deck has entered the REC/MUTE mode for about 4 seconds. For details, refer to the tape deck instructions.

Notes:

- If the power for any connected equipment is shut off during synchronized recording, the system will not operate properly. In this case, you must start all over again.
- During synchronized recording the SOURCE key will lock in either the CD or PHONO position. This is to prevent you from accidentally stopping the recording or changing to any other source. To change to another source you must first stop synchronized recording.
- If you connect a cassette deck to the TAPE 2/VIDEO SOUND terminals, disconnect the remote control cable and do not use synchronized recording.
- If you program track numbers on a CD player or CD atuo-changer and use synchronized recording, a blank space about 4 seconds long will be left between recordings. This permits music scanning.

Inserting Batteries in the Remote Control Unit

The RM-SR305U remote control unit require two size AAA (1.5 V) batteries.

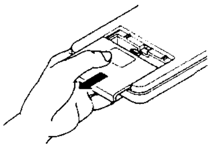


Important Notes About Batteries

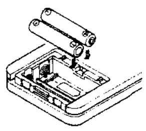
- If the range of the remote control unit seems shortened, the batteries may be old. Try inserting new batteries.
- Observe the polarity of the batteries when loading them.
- Do not use one new battery with one old batteries.
- Be sure to use batteries of the same brand. Batteries may vary in voltage even through they look alike.
- If the remote control unit will not be used for a long time, remove the batteries.

CAUTION:
Do not heat batteries or attempt to dispose of them by burning.

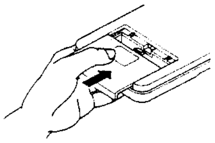
1. Remove the rear cover of the remote control unit by pressing down gently while sliding it out.



2. Insert the batteries, making sure that their position matches that of the diagram inside the remote.

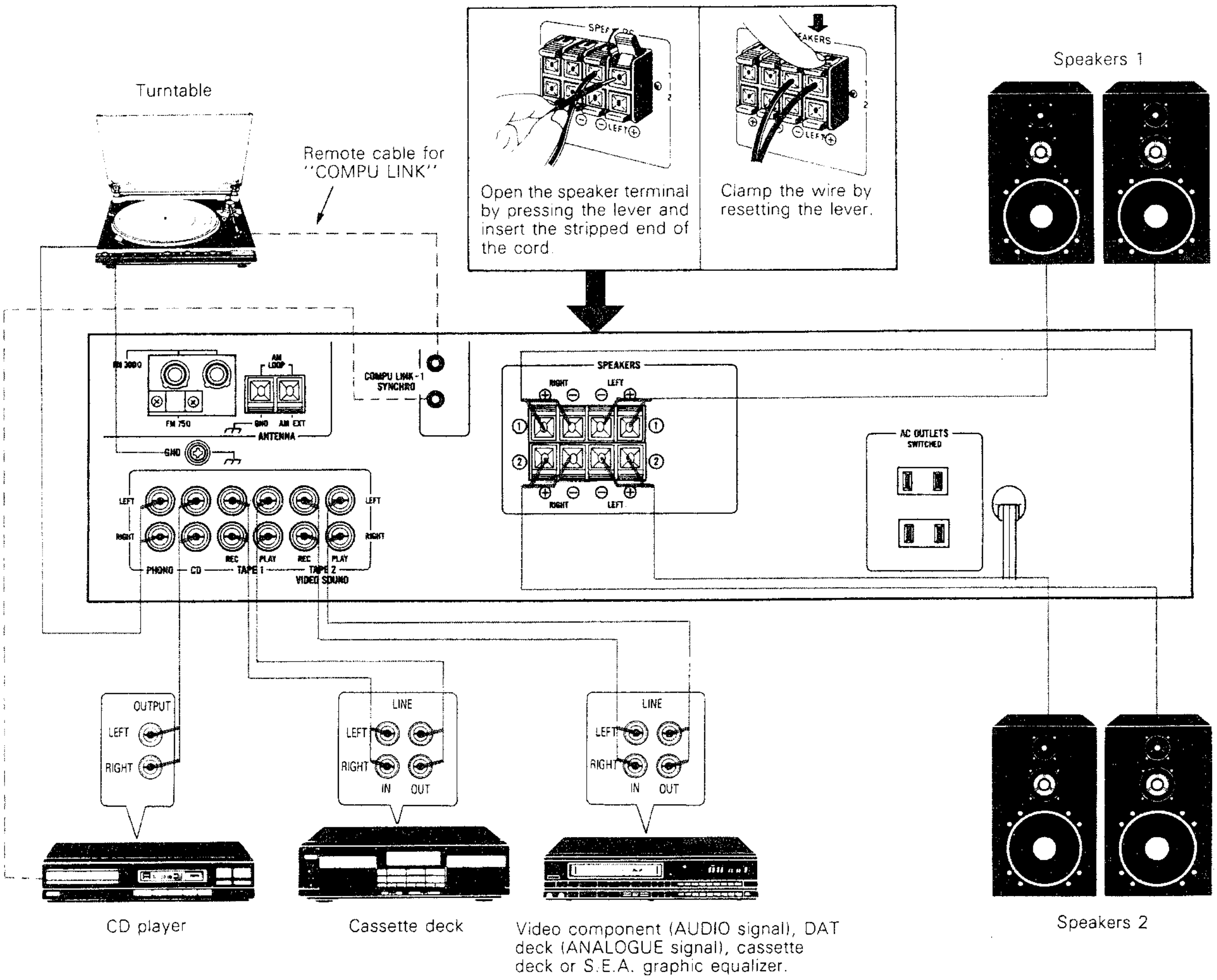


3. Replace the rear cover.



Connection Diagram

Switch the power off when connecting any cables.



Open the speaker terminal by pressing the lever and insert the stripped end of the cord.

Clamp the wire by resetting the lever.

Remote cable for "COMPU LINK"

Video component (AUDIO signal), DAT deck (ANALOGUE signal), cassette deck or S.E.A. graphic equalizer.

Turntable
Speakers 1
Speakers 2
CD player
Cassette deck
SPEAKERS
LEFT
RIGHT
COMPU LINK-1 SYNCHRO
FM 300Ω
FM 75Ω
AM LOOP
GND
AM EXT
ANTENNA
PHONO
CD
TAPE 1
TAPE 2 VIDEO SOUND
REC
PLAY
AC OUTLETS SWITCHED
OUTPUT
LINE
IN
OUT
①
②

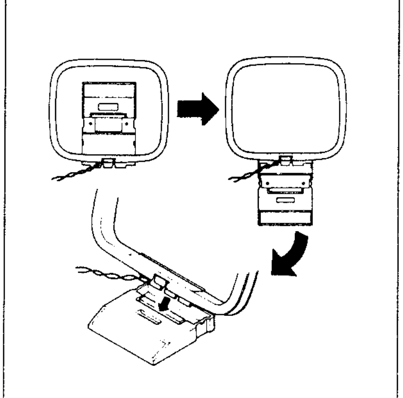
❶ ANTENNA terminals
❷ GND terminal
If your turntable has a ground lead, connect it to the GND terminal.
❸ PHONO, CD TAPE 1, TAPE 2/VIDEO SOUND terminals.
❹ COMPU LINK-1/SYNCHRO terminals
Connect to JVC components provided with COMPU LINK-1/SYNCHRO terminals for the COMPU LINK control system function.
❺ AC OUTLETS (SWITCHED)
❻ SPEAKERS 1, 2 terminals
❼ Power cord

Notes:

- When connecting components, connect their left and right channels correctly. If channels are reversed, the stereo effect will be degraded.
- Connect speakers with the correct polarity: (+) to (+) and (−) to (−). Reversed polarity will degrade the stereo effect. Be careful to prevent adjacent speaker wires from touching each other.
- Use speakers with the correct impedance. The correct impedance is indicated on the rear panel of the RX-305TN/RX-304BK.
- The AC OUTLETS do not supply power when the power switch is turned off. Do not connect equipment requiring more than the outlet's rated value.
- Do not connect the remote cable when connecting the JVC cassette deck having COMPU LINK-1/SYNCHRO terminals to the TAPE2/VIDEO SOUND terminals.
- When a JVC DAT deck having COMPU LINK-1/SYNCHRO terminals is used, be sure to connect it to the TAPE2/VIDEO SOUND terminals and also connect the remote cable.
- Connect a turntables using a moving magnetic (MM) type cartridges to the PHONO terminals.

Antennas

Installation of Loop Antenna



Insert in the direction of arrow.

Fig. 1

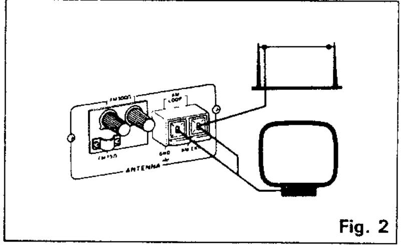

FM 300Ω
AM LOOP
FM 75Ω
GND
AM EXT
ANTENNA

Fig. 2

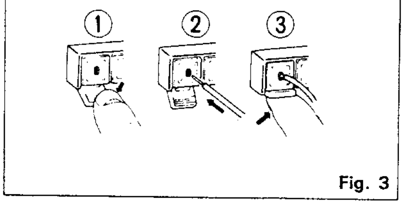


Fig. 3

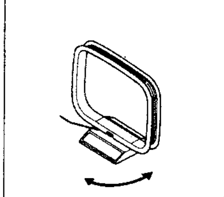


Fig. 4

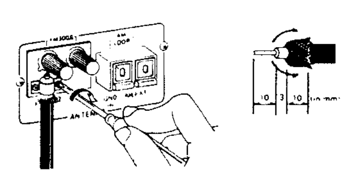


Fig. 5

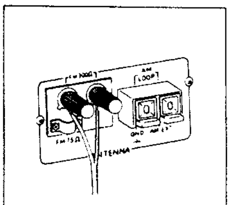


Fig. 6

AM antennas

Figure 1: How to assemble the AM loop antenna

Figure 2: AM loop antenna

This antenna is for the reception of local AM broadcasts.

Figure 3: AM external antenna

If AM reception is unsatisfactory, connect an external AM antenna (single-wire antenna) to the AM EXT terminal.

Figure 4: Noise and interference

Change the direction of the loop antenna, or re-install it in a better position if the reception is noisy.

Notes:

- If the provided loop antenna is not connected or an uninsulated antenna wire touches the rear panel, it will be impossible to receive AM broadcasts.
- When installing an external AM antenna, leave the AM loop antenna connected.

FM antennas

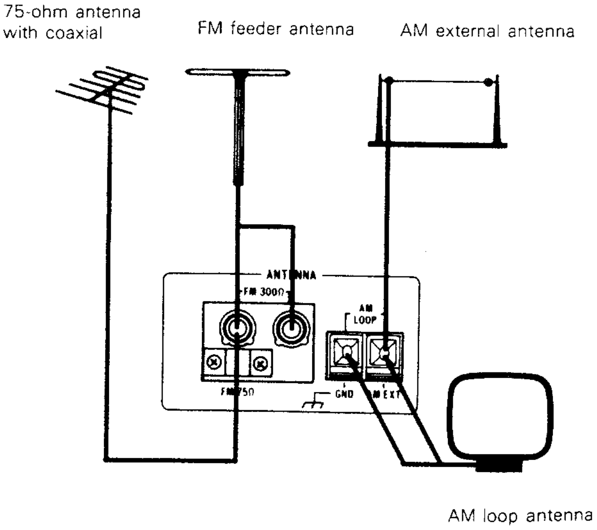
Figure 5: 75-ohm FM antenna with coaxial

Loosen the screws on the bracket and insert the cable through the ring from below. Connect the stripped core to the upper terminal then tighten the ring. The ring is the antenna ground.

Figure 6: FM Feeder antenna

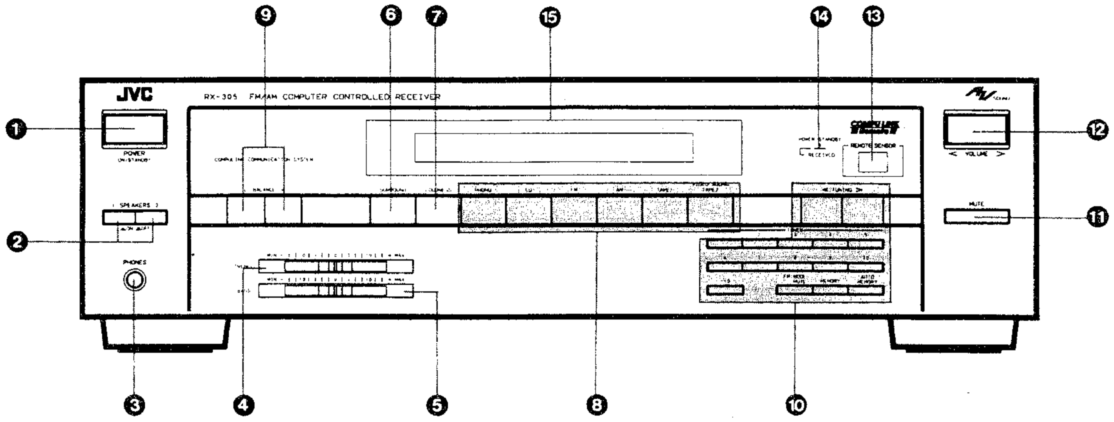
Connect to the FM 300Ω terminal. Make sure the feeder antenna wires do not touch any other terminals.

Antenna Connections


75-ohm antenna with coaxial
FM feeder antenna
AM external antenna
ANTENNA
FM 300Ω
AM LOOP
FM 75Ω
GND
AM EXT
AM loop antenna

Front Panel

RX-305TN/RX-304BK



❶ POWER (ON/STANDBY)
Press this button to turn the power ON. Press again to turn the power off and activate the STANDBY mode. The STANDBY indicator will light.
A small amount of power (5 watts) is consumed in the STANDBY mode. To turn the power off completely, disconnect the power cord from the wall outlet. Preset data is retained in memory while the power cord is plugged into the wall outlet. If the power cord is disconnected or a power failure occurs, data is retained for two or three days.

❷ SPEAKERS 1, 2
Turns speakers 1 and 2 ON or OFF.

❸ PHONES
Plug headphones into this jack. If you want to hear from the headphones alone, turn OFF speakers 1 and 2.

❹ TREBLE
Adjusts treble sound. Slide the knob to the left to weaken the treble sound and to the right to strengthen it.

❺ BASS
Adjusts bass sound. Slide the knob to the left to weaken the bass sound and to the right to strengthen it.

❻ SURROUND
Turns the surround sound effect ON or OFF.

❼ LOUDNESS
Turns LOUDNESS ON or OFF. The ON position makes up for loss of the human auditory sensation when the sound volume is low.

❽ SOURCE
Use the following keys to select sources:

PHONO:	Press to listen to records.
CD:	Press to listen to CDs.
FM:	Press to listen to FM broadcasts.
AM:	Press to listen to AM broadcasts.
TAPE 1:	Press to operate the tape deck connected to the TAPE 1 terminals.
TAPE 2/VIDEO SOUND:	Press to operate the tape deck, video equipment or S.E.A. graphic equalizer connected to the TAPE 2/VIDEO SOUND terminals. (alternates between ON and OFF)

❾ BALANCE L, R
Adjusts the volume balance between the left and right speakers.

❿ TUNER
Use the following keys to listen to AM or FM broadcasts:

MEMORY:	Stores an AM or FM frequency (station) on a preset channel.
AUTO MEMORY:	Stores an AM or FM frequency on a preset channel using the AUTO MEMORY feature.
FM MODE/MUTE:	Selects FM reception modes.
TUNING <,>:	Tunes in an AM or FM frequency.
1 – 10, + 10 (Tuner numeric keys):	Press to select preset channels.

⓫ MUTE
Turns sound ON or OFF temporarily.

⓬ VOLUME < , >
Adjusts the volume of sound from the speakers or headphones.

⓭ REMOTE SENSOR
Receives signals from the remote control unit.

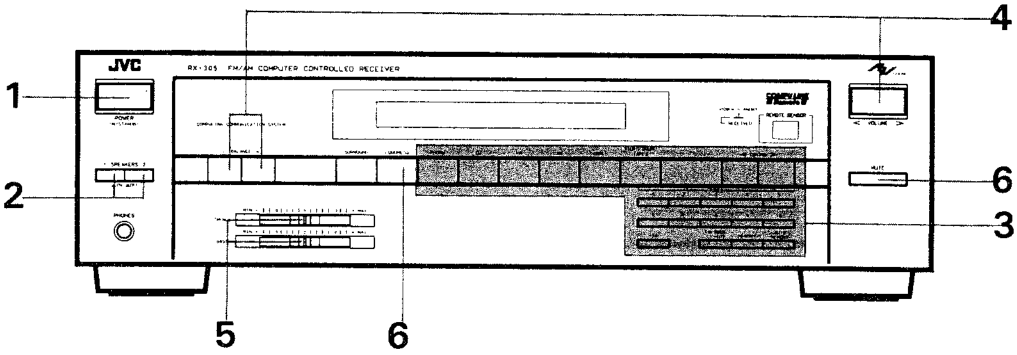
⓮ RECEIVED and POWER STANDBY indicator
Lights when signals are received from the remote control unit or when the machine is in the STANDBY mode.

⓯ Display and indicator
Shows the operating status.

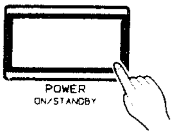
Basic Operation

— Before Operating —

Before plugging the power cord into an AC outlet, check to be sure the individual components are connected correctly.

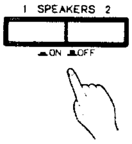

JVC
RX-305 FM/AM COMPUTER CONTROLLED RECEIVER
1
2
3
4
5
6
6

1. Turn the POWER switch to ON.


POWER
ON/STANDBY

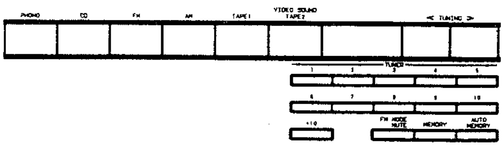
Note:
If a malfunction occurs when the power is ON, unplug the power cord and then plug it in again.

2. Select a speaker system by pressing one of the SPEAKERS keys.

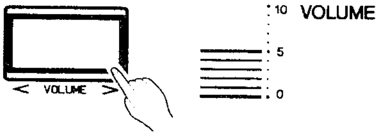

1 SPEAKERS 2
ON OFF

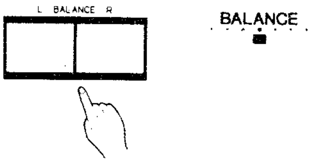
Note:
If speakers are not connected to both SPEAKERS 1 and 2 terminals, do not turn ON both speaker systems as that would suppress sound output.

3. Operate these keys, as needed, by following the directions given further on.


PHONO
CD
FM
AM
TAPE1
VIDEO SOUND
TAPE2
TUNING
TUNER
FM MODE
MUTE
MEMORY
AUTO MEMORY

4. Adjust the VOLUME and BALANCE keys to your taste.


VOLUME
10
5
0
< VOLUME >

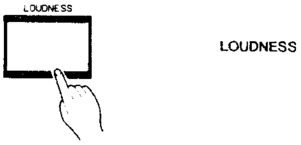

L BALANCE R
BALANCE

Note:
These keys vary their settings while they are being pressed.

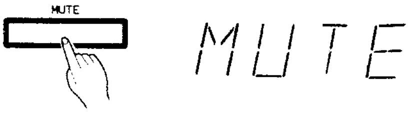
5. Adjust the TREBLE and BASS knobs for desired sound quality.

6. Press the LOUDNESS and MUTE keys as needed.

- Press to make up for loss of the human auditory sensation when the sound volume is low.

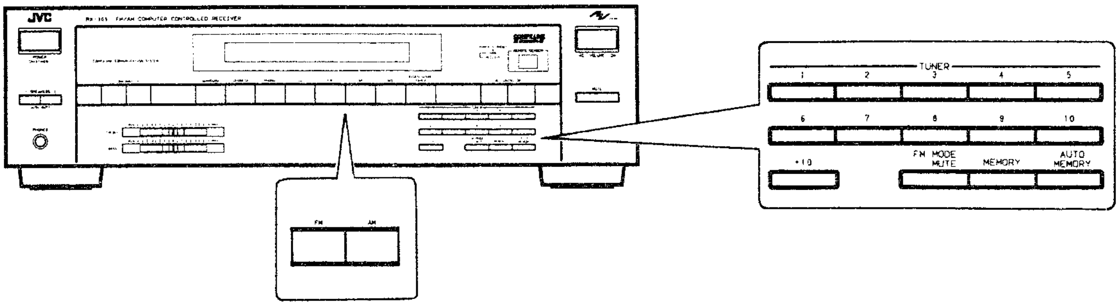

LOUDNESS
LOUDNESS

- Press to temporarily cancel sound output.



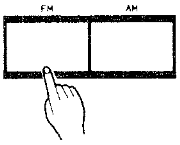
Note:
The MUTE key is reset when the VOLUME or BALANCE keys are pressed.

Listening to AM or FM Broadcasts

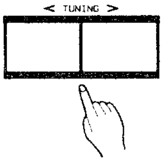

JVC
TUNER
1
2
3
4
5
6
7
8
9
10
+10
FM MODE
MUTE
MEMORY
AUTO
MEMORY
FM
AM

■ Selecting a Station

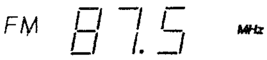
1. Press the AM or FM key.



2. Use the TUNING keys to find a station.

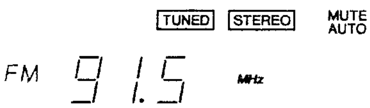


Each time the TUNING keys are pressed, the frequency is varied in steps of 10 kHz for AM and 0.1 MHz for FM. The setting will vary continuously while the keys are pressed and held.



Auto-tuning starts when the TUNING keys are released and stops when a station is tuned. To halt auto-tuning, press a TUNING key.

3. The TUNED indicator will light when a station is tuned in correctly.


TUNED
STEREO
MUTE
AUTO
FM
91.5
MHz

Adjust the antenna if the indicator does not light.

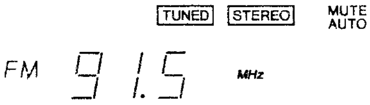
- While tuning in an FM station, press the MODE/MUTE key to light the MUTE/AUTO indicator, this cuts out inter station noise while tuning.
- The STEREO indicator will light when an FM stereo station is tuned in correctly.

If the FM stereo station is weak and noisy, press the MODE/MUTE key again to turn off the MUTE/AUTO indicator to improve reception (broadcast becomes monaural).

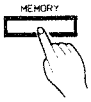
■ Presetting Stations

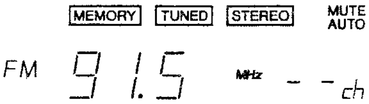
You can preset a total of 40 AM and FM station (CH 1 through CH 40).

1. Tune in the desired station with the TUNING keys.

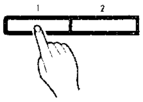

TUNED
STEREO
MUTE
AUTO
FM
91.5
MHz

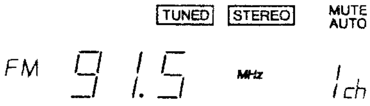
2. Press the MEMORY key to light its indicator.




MEMORY
TUNED
STEREO
MUTE
AUTO
FM
91.5
MHz
- - ch

3. Enter the channel number with numeric keys while the indicator is on (for about 5 seconds).




TUNED
STEREO
MUTE
AUTO
FM
91.5
MHz
1ch

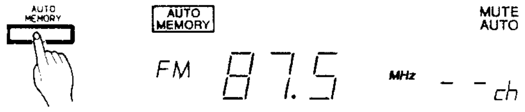
- If the indicator turns off before you enter the channel number, press the MEMORY key again.

4. Repeat this procedure to preset other channels.

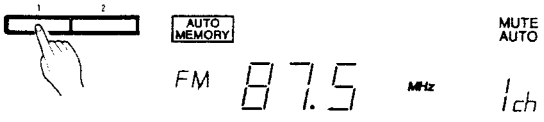
■ AUTO MEMORY

The auto-memory feature scans frequencies upward and presets stations as they are tuned, in ascending channel number order.

1. Using the TUNING keys, select the frequency from which you want auto-memory to start (the lower-limit frequency).
2. Press the AUTO MEMORY key to light its indicator.


AUTO MEMORY
AUTO MEMORY
MUTE AUTO
FM 87.5 MHz - - ch

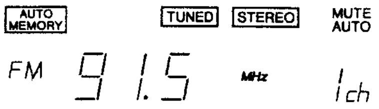
Enter the starting channel number with the numeric keys while the indicator is on (about 5 seconds).


1
2
AUTO MEMORY
MUTE AUTO
FM 87.5 MHz 1ch

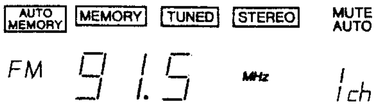
- If the indicator turns off before you enter the channel number, press the AUTO MEMORY key again.

3. The auto-memory feature starts scanning frequencies upward.

The TUNED indicator will light when a station is tuned, with the channel number blinking (for about 5 seconds).


AUTO MEMORY
TUNED
STEREO
MUTE AUTO
FM 91.5 MHz 1ch

4. The presetting is complete when the MEMORY indicator is lit.

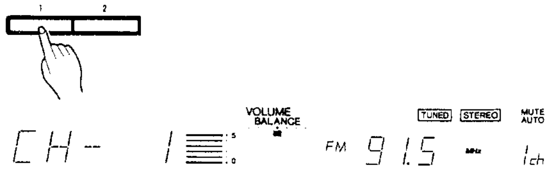

AUTO MEMORY
MEMORY
TUNED
STEREO
MUTE AUTO
FM 91.5 MHz 1ch

This continues until the upper-limit frequency is reached or all 40 channels are filled.

Note:
If you do not want to preset a station, resume scanning by pressing the AUTO MEMORY key while the channel number is blinking. To halt the auto-memory feature, press any TUNER key other than the AUTO MEMORY key.

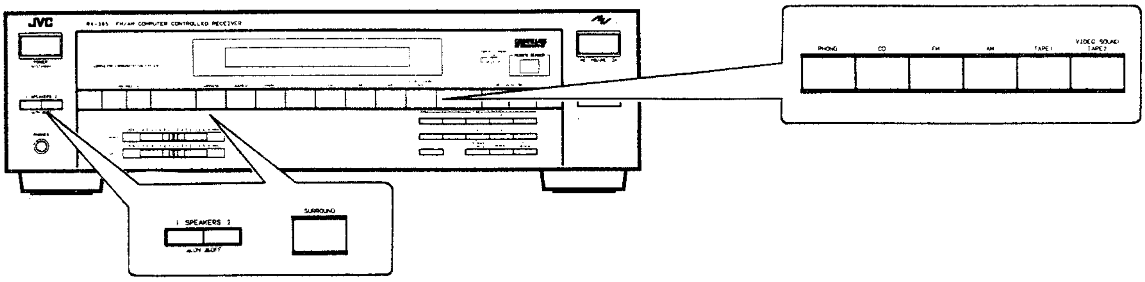
■ Recalling Preset Channels

1. Press numeric keys to select a preset channel.


1
2
VOLUME BALANCE
TUNED
STEREO
MUTE AUTO
CH-- 1
FM 91.5 MHz 1ch

- To indicate numbers 1 through 10, simply press the appropriate keys.
  To indicate numbers over 10, press the appropriate combination of keys.
  Examples;
  To indicate 17, press "+10", then "7".
  To indicate 20, press "+10", then "10".
  To indicate 26, press "+10" twice, then "6".
  To indicate 40, press "+10" three times, then "10".

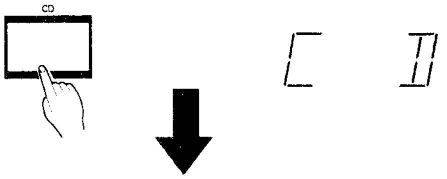
Playing Back Sources (PHONO, CD, TAPE1, TAPE2/VIDEO SOUND)


JVC
PHONO
CD
FM
AM
TAPE1
VIDEO SOUND/TAPE2
SPEAKERS
SURROUND
ON OFF

■ Playing Back Sources

1. Press the SOURCE key for the desired source.
2. Operate the corresponding equipment.

<If you select CD>



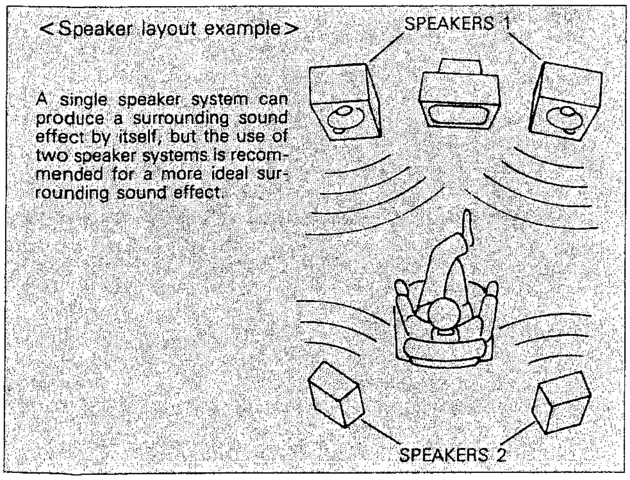
CD player can be operated.

- Pressing the TAPE2/VIDEO SOUND key will not change the display source indication, but the TAPE2 MONITOR lights.
  To play another source, press the TAPE2/VIDEO SOUND key again to turn off the indicator.

Note:
To operate other source equipment, refer to the appropriate instructions.

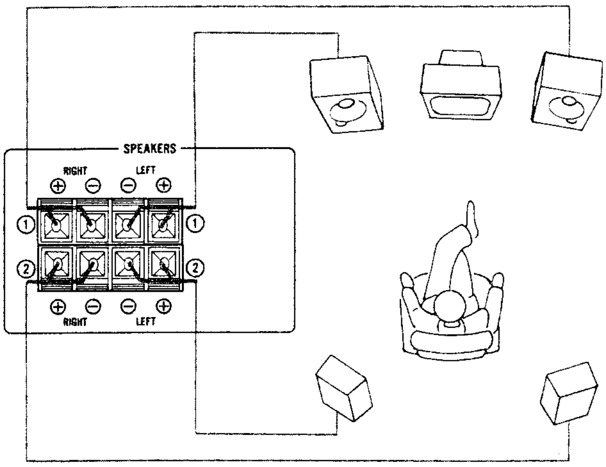
■ Playing Back with a Surround-sound Effect

Playing back a stereo source with the SURROUND key ON will produce a surrounding sound effect.

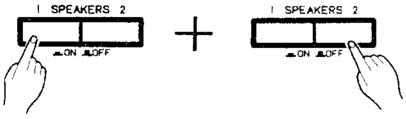

<Speaker layout example>
SPEAKERS 1
SPEAKERS 2

A single speaker system can produce a surrounding sound effect by itself, but the use of two speaker systems is recommended for a more ideal surrounding sound effect.

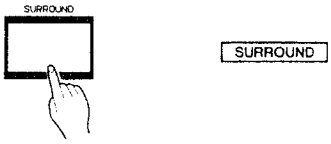
1. Connect speaker systems to the SPEAKERS 1 and 2 terminals.


SPEAKERS
RIGHT
LEFT
⊕ ⊖ ⊖ ⊕
①
②

2. Turn ON the SPEAKERS keys, 1 and 2.


1 SPEAKERS 2
ON OFF

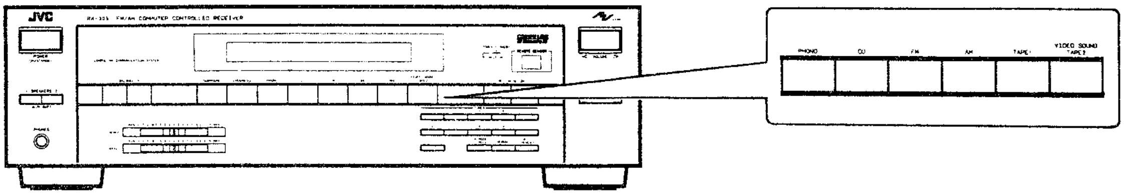
3. Press the SURROUND key.


SURROUND
SURROUND

4. Play back the stereo source.

- If a speaker system with a low-rated input is connected to SPEAKERS 2, avoid using it independent of SPEAKERS 1, and play attention to its VOLUME control during surrounding sound playback.
- Monaural sources cannot be played back with the surround sound effect.

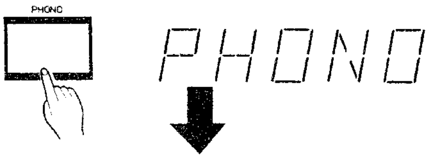
Recording



Recording

1. Press the SOURCE key for the desired source.
2. Operate the corresponding source equipment.

<If you select PHONO>



Turntable and tape deck can be operated.

Notes:
The surround sound is recorded as a normal stereo sound even if it is recorded with the SURROUND key is ON.

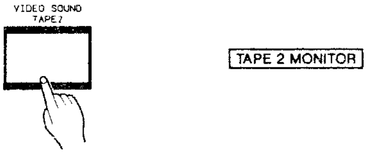
Three-Head Tape Decks

If you have a three-head tape deck, you can use it to monitor the sound being recorded. Connect the tape deck to the TAPE 2/VIDEO SOUND terminals and proceed as follows:

1. Start recording the source onto the TAPE 2 deck.

   When the TAPE 2 MONITOR indicator is off, you hear the sound of the source playing through the speakers.

2. Press the TAPE 2/VIDEO SOUND key.



   Now you hear the sound of the recording immediately as it is made on the tape.

- By pressing the TAPE2/VIDEO SOUND key on and off, you can compare the sound quality of the source with the quality of the tape recording being made.

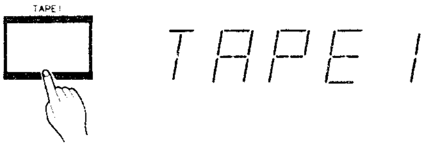
Note:
Set the recording level from the tape deck. It can not be set with the VOLUME control of this machine.

Dubbing Tapes

Connect one tape deck to the TAPE 1 terminals, the other tape deck to the TAPE 2/VIDEO SOUND terminals.

<To record from TAPE 1 to TAPE 2/VIDEO SOUND>

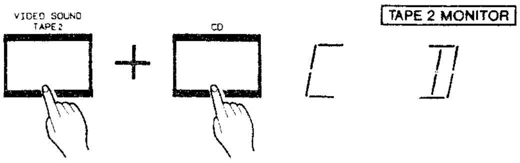
1. Press the TAPE 1 key.



2. Play back the TAPE 1 deck and record with the TAPE 2/VIDEO SOUND deck.

<To record from TAPE 2/VIDEO SOUND to TAPE 1>

1. Press the TAPE 2/VIDEO SOUND key and a SOURCE key other than TAPE 1.



2. Play back the TAPE 2/VIDEO SOUND deck and record with the TAPE 1 deck.

Operation with the Remote Control Unit

- The RM-SR305U remote control units control the RX-305TN/RX-304BK and JVC's audio visual gear from a remote place via the Compu Link Remote Control System.
- Direct the transmitter window of the remote control unit at target equipment. Take care to avoid obstacles between the transmitter and the target. Press keys slowly and positively, making sure the desired functions result.
- The key markings on the transmitter may not match those on the equipment. Check the markings.
  The remote contrl unit cannot control equipment functions they do not support. Older equipment may not be receptive to their input.
- Check for connection of the COMPU LINK-1/SYNCHRO terminals on the remote equipment by a remote cable.
- The operation of each key on the remote control unit is clearly displayed on the RX-305TN/RX-304BK.
  For specific procedures, refer to the instructions for the particular equipment.
- Switch on the power to all the equipment required before starting operation. The POWER keys on the RM-SR305U can switch on the power to the AUDIO (RX-305TN/RX-304BK), VCR, and TV.

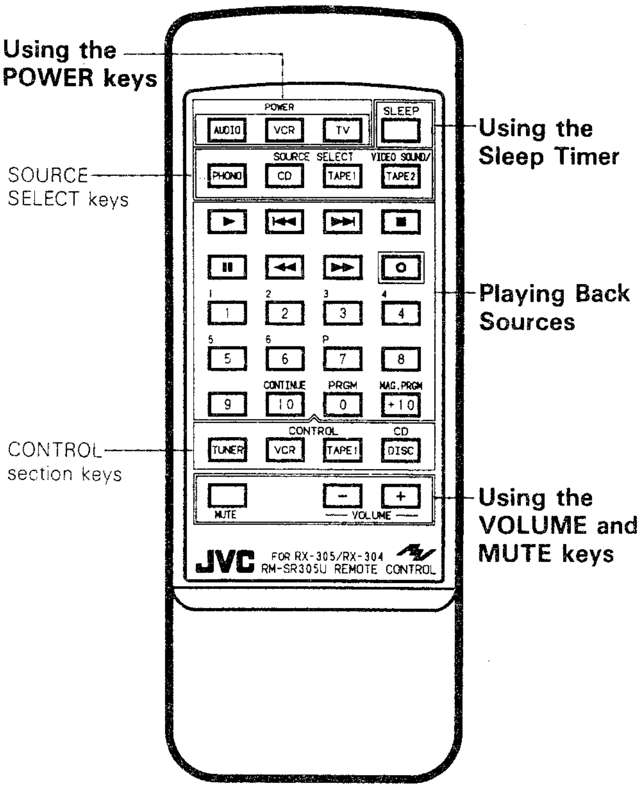
■ Using the POWER keys

- AUDIO
  Press to change the power for the RX-305TN/RX-304BK to ON or STANDBY.
- VCR
  Press to change the VCR power to ON or OFF.
- TV
  Press to change the TV power to ON or OFF.

■ Using the VOLUME and MUTE keys

- VOLUME $\boxed{-}$, $\boxed{+}$
  Adjust the volume by pressing the minus $\boxed{-}$ key to lower the sound and the plus $\boxed{+}$ key to raise the sound.
- MUTE
  Press ON to turn off the sound temporarily. Press again to OFF, or operate the VOLUME key, to turn on the sound again.

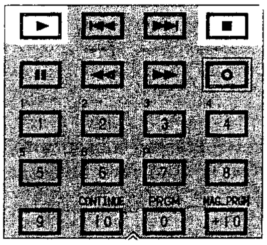
- **Aim the signals at the REMOTE SENSOR on the RX-305TN/RX-304BK.**


Using the POWER keys
SOURCE SELECT keys
CONTROL section keys
Using the Sleep Timer
Playing Back Sources
Using the VOLUME and MUTE keys
POWER
SLEEP
AUDIO
VCR
TV
SOURCE SELECT
VIDEO SOUND/
PHONO
CD
TAPE1
TAPE2
CONTINUE
PRGM
MAG.PRGM
CONTROL
CD
TUNER
VCR
TAPE1
DISC
MUTE
VOLUME
JVC
FOR RX-305/RX-304
RM-SR305U REMOTE CONTROL

■ Playing Back Sources

Turntable (PHONO)

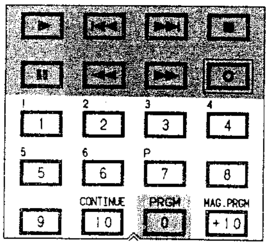
1. Press the PHONO key of the SOURCE SELECT keys.
2. Use the following keys.



▶ : Starts play.
■ : Stops play.

FM/AM broadcasts

1. Press the TUNER key from the CONTROL section keys.
2. Use the following keys.

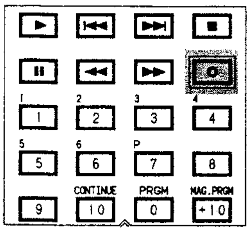

1
2
3
4
5
6
P
CONTINUE
PRGM
MAG.PRGM
+10

1 ~ 10, +10 : Select the preset channel.
- The numeric keys are used in the same way as the TUNER numeric keys on the equipment. For reference, see "Listening to AM or FM Broadcasts".

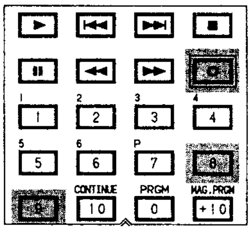
CD

1. Press the CD key of the SOURCE SELECT key.
2. Use the following keys. (CD mode)

<CD mode>



<DISC mode>



1 ~ 10, + 10, 0 : Select the track number.
► : Starts play.
■ : Stops operation.
❚❚ : Stops play temporarily. To release it, press ►.
◄◄ : Moves backward quickly during play.
►► : Moves forward quickly during play.
◄◄ : Skips to the beginning of the previous track.
►►❚ : Skips to the beginning of the next track.

If you use a CD Auto-changer, press the CD DISC key of the CONTROL section to perform the following operations. (DISC mode)

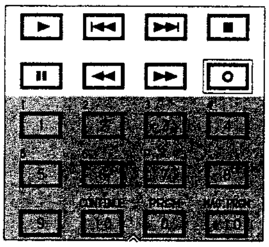
1 ~ 6, P	: Selects the disc number.
CONTINUE	: Use for continuous play.
PRGM	: Use for program play.
MAG. PRGM	: Use for magazine program play.

- To select track numbers, press the CD key before using 1 to 10, + 10, and 0 key to enter the track number.

The numeric keys and play modes vary in function from one type of CD auto-changer to another. Be sure to read the CD auto-changer's instruction.

Cassette Deck (TAPE 1)

1. Press the TAPE 1 key of the SOURCE SELECT or CONTROL section keys.
2. Use the following keys.



► : Starts playback.
■ : Stops operation.
❚❚ : Stops recording/playback temporarily.
To release press ►.
◄◄ : Fast winds the tape from right to left.
►► : Fast winds the tape from left to right.
❚◄◄ : Skips to the beginning of the previous tune.
►►❚ : Skips to the beginning of the next tune.
o : Press together with ► to start recording.
Press together with ❚❚ to enter record-pause mode.

Note:
When the tape 1 key of the CONTROL section is pressed, the SOURCE key of the receiver will not be switched. You can use this function to standby for playing or recording while listening to other sources.

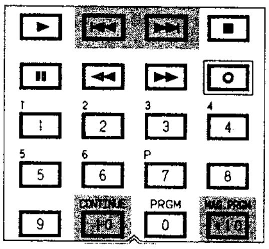
TAPE 2/VIDEO SOUND

1. Press the TAPE 2/VIDEO SOUND key of the SOURCE SELECT keys.

Press when you want to play back or monitor the recording on a tape deck connected to the TAPE 2/VIDEO SOUND terminals or when you want to play back a tape on video equipment.

VCR

1. Press the VCR key of the CONTROL section keys.
2. Use the following keys.



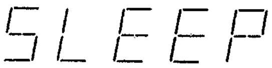
1 ~ 9, 0 : Select the VCR channel directly.
► : Starts play back a video tape.
■ : Stops VCR operation.
❚❚ : Stops recording/playback temporarily and enters the pause/still mode. To release it press ►.
o : Press together with ► to start recording.
Press together with ❚❚ to enter the record-standby mode.
◄◄ : Rewinds video tape.
►► : Fast-forwards video tape.

- Use the remote controller pointed at the VCR.

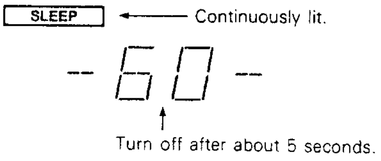
■ Using the Sleep Timer

The sleep timer shuts off the receiver (to enter the STANDBY mode) when the preset time intervals have elapsed.

1. Press the SLEEP key to set the timer setting mode.



2. Each time the SLEEP key is pressed subsequently, the timer can be set up to 80 minutes, in 10-minute multiples.



3. After the minute display turns off, press the SLEEP key once more to display the remaining time in minutes.

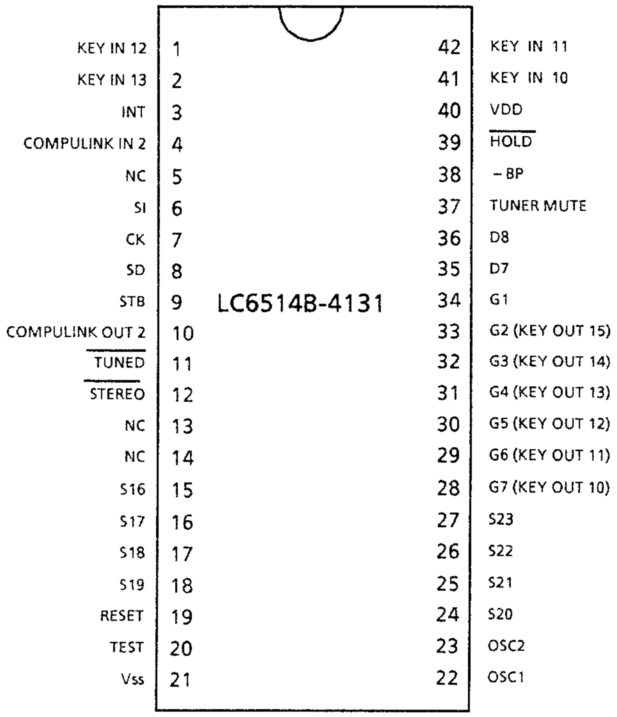
Troubleshooting

Problem	Possible Cause	Solutions
Receiver does not play; Indicators do not light up.	Power cord not plugged in.	Plug Power cord into an AC outlet.
No sound from the speakers.	Speaker wires not connected properly.	Check speaker wiring. Reconnect if needed.
	SPEAKERS keys not set correctly.	Press the SPEAKERS keys in or out as desired.
Sound from one speaker only.	Speaker wires not connected properly.	Check speaker wiring. Reconnect if needed.
	Balance Control may be set to one extreme.	Adjust Balance Control so both speakers have sound.
Continuous hiss or buzzing during FM reception.	Incoming signal may be too weak.	Adjust antenna.
		Station may be too far away to receive.
	Incorrect antenna used.	Check with your dealer to make sure you are using the correct type of antenna.
	Antenna not connected properly.	Make sure all antennas are properly connected.
Occasional cracking noise during FM reception.	Ignition noise from automobiles.	Move the antenna further away from the road.
Loud hum during record playing.	Turntable not connected properly.	Check the turntable manual. Ground the turntable if required.
	Interference from other electrical appliances.	Try moving the power cord or plugging into a different outlet.
Howling during record playing.	Turntable too close to a speaker.	Move speakers away from the turntable.

Description of Major ICs

■ LC6514B-4131 (IC421) : Tuner Controller

1. Terminal Layout


LC6514B-4131
KEY IN 12 1
KEY IN 13 2
INT 3
COMPULINK IN 2 4
NC 5
SI 6
CK 7
SD 8
STB 9
COMPULINK OUT 2 10
$\overline{\text{TUNED}}$ 11
$\overline{\text{STEREO}}$ 12
NC 13
NC 14
S16 15
S17 16
S18 17
S19 18
RESET 19
TEST 20
Vss 21
42 KEY IN 11
41 KEY IN 10
40 VDD
39 $\overline{\text{HOLD}}$
38 – BP
37 TUNER MUTE
36 D8
35 D7
34 G1
33 G2 (KEY OUT 15)
32 G3 (KEY OUT 14)
31 G4 (KEY OUT 13)
30 G5 (KEY OUT 12)
29 G6 (KEY OUT 11)
28 G7 (KEY OUT 10)
27 S23
26 S22
25 S21
24 S20
23 OSC2
22 OSC1

2. Key Matrix

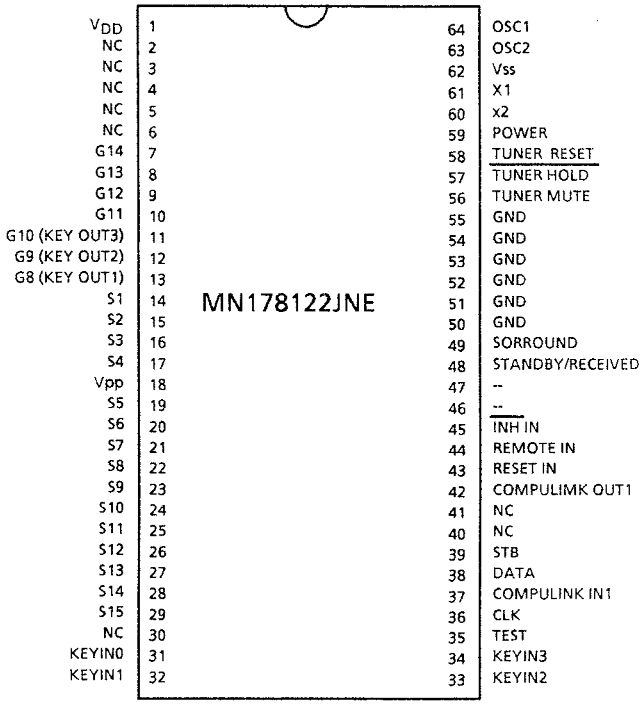
	IN 10 (pin 41)	IN 11 (pin42)	IN 12 (pin1)	IN 13 (pin2)
OUT10 (pin28)	---	MEMORY	AUTO MEMORY	---
OUT11 (pin29)	FM	AM	---	MODE
OUT12 (pin30)	TUNING UP	TUNING DOWN	---	---
OUT13 (pin31)	1	2	3	4
OUT14 (pin32)	5	6	7	8
OUT15 (pin33)	9	10	+10	---

3. Pin Functions

Pin No.	Symbol	I/O	Function and Operation	Pin No.	Symbol	I/O	Function and Operation
1	KEY IN 12	I	Key matrix input	22	OSC1	–	Oscillation input
2	KEY IN 13	I	〃	23	OSC2	–	Oscillation output
3	INT	--	Pull up (+5V)	24	S20	O	FL segment output
4	COM. IN2	I	Compulink signal input	25	S21	O	〃
5	NC	--	Non connection	26	S22	O	〃
6	SI	I	Data input (from IC102)	27	S23	O	〃
7	CK	O	System clock output (to IC102)	28	G7	O	FL grid output (Key matrix output)
8	SD	O	Data output (to IC102)	29	G6	O	〃 (Key matrix output)
9	STB	O	Chip enable (to IC102)	30	G5	O	〃 (Key matrix output)
10	COM. OUT2	O	Compulink signal output	31	G4	O	〃 (Key matrix output)
11	$\overline{\text{TUNED}}$	I	"TUNED" signal input (from IC104)	32	G3	O	〃 (Key matrix output)
12	$\overline{\text{STEREO}}$	I	"STEREO" signal input (from IC105)	33	G2	O	〃 (Key matrix output)
13	NC	--	Non connection	34	G1	O	〃
14	NC	--	Non connection	35	D7	O	Version select signal
15	S16	O	FL segment output	36	D8	O	Version select signal
16	S17	O	〃	37	TUN. MUTE	O	Tuner muting (Refer to page 27)
17	S18	O	〃	38	– BP	–	FL display power supply
18	S19	O	〃	39	$\overline{\text{HOLD}}$	I	Input signal for backup
19	RESET	I	Reset signal input (Refer to page 27)	40	VDD	–	Power supply (+5V)
20	TEST	I	Pull down	41	KEY IN 10	I	Key matrix input
21	Vss	--	GND	42	KEY IN 11	I	〃

■ MN178122JNE(IC401) : System Controller

1. Terminal Layout


MN178122JNE
VDD 1
NC 2
NC 3
NC 4
NC 5
NC 6
G14 7
G13 8
G12 9
G11 10
G10 (KEY OUT3) 11
G9 (KEY OUT2) 12
G8 (KEY OUT1) 13
S1 14
S2 15
S3 16
S4 17
Vpp 18
S5 19
S6 20
S7 21
S8 22
S9 23
S10 24
S11 25
S12 26
S13 27
S14 28
S15 29
NC 30
KEYIN0 31
KEYIN1 32
64 OSC1
63 OSC2
62 Vss
61 X1
60 x2
59 POWER
58 TUNER RESET
57 TUNER HOLD
56 TUNER MUTE
55 GND
54 GND
53 GND
52 GND
51 GND
50 GND
49 SORROUND
48 STANDBY/RECEIVED
47 --
46 --
45 INH IN
44 REMOTE IN
43 RESET IN
42 COMPULIMK OUT1
41 NC
40 NC
39 STB
38 DATA
37 COMPULINK IN1
36 CLK
35 TEST
34 KEYIN3
33 KEYIN2

2. Key matrix

	KEY OUT 1 (pin13)	KEY OUT2 (pin12)	KEY OUT3 (pin11)
KEY IN 0 (pin31)	POWER	BALANCE L	PHONO
KEY IN 1 (pin32)	MUTING	BALANCE R	CD
KEY IN 2 (pin33)	LOUDNESS	VOLUME DOWN	TAPE1
KEY IN 3 (pin34)	SURROUND	VOLUME UP	TAPE2

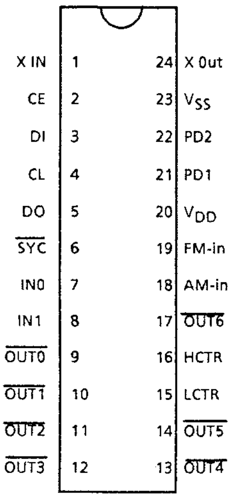
3. Pin Function Description

Pin NO.	symbol	I/O	Function and Operations	Pin NO.	symbol	I/O	Function and Operations
1	VDD	--	Power supply	33	KEYIN2	I	Key matrix input
2	NC	--	Non connection	34	KEYIN3	I	Key matrix input
3	NC	--	〃	35	TEST	I	When the TEST mode,Connected to GND.
4	NC	--	〃	36	CLK	O	Clock output (to IC321,361)
5	NC	--	〃	37	COMPU. IN1	I	Compulink signal input
6	NC	--	〃	38	DATA	O	Analog switch data output(to IC321,361)
7	G14	O	FL grid control output	39	STB	O	Strobe signal output (to IC321,361)
8	G13	O	〃	40	NC	--	Non connection
9	G12	O	〃	41	NC	--	Non connection
10	G11	O	〃	42	COMPU. OUT1	O	Compulink signal output
11	G10	O	〃 (KEY OUT 3)	43	RESET IN	I	Reset signal input (Refer to page 27)
12	G9	O	〃 (KEY OUT 2)	44	REMOTE IN	I	Signal input from REMOTE SENSOR
13	G8	O	〃 (KEY OUT 1)	45	INH IN	I	Inhibit signal input (Refer to page 27)
14	S1	O	FL segment control output	46	GND	--	Connected to GND
15	S2	O	〃	47	GND	--	Connected to GND
16	S3	O	〃	48	STAND./REC.	O	Indication signal output
17	S4	O	〃	49	SURROUND	O	Surround on signal output
18	Vpp	--	Power supply for FL Display	50	GND	--	Pull down (+5V)
19	S5	O	FL segment control output	51	GND	--	〃
20	S6	O	〃	52	GND	--	〃
21	S7	O	〃	53	GND	--	〃
22	S8	O	〃	54	GND	--	〃
23	S9	O	〃	55	GND	--	〃
24	S10	O	〃	56	T.MUTE	O	This is "H", when source is except tuner.
25	S11	O	〃	57	T.HOLD	O	Output signal for backup (to IC421)
26	S12	O	〃	58	T. RESET	O	Reset signal is output. (Refer to page 27)
27	S13	O	〃	59	POWER	O	This signal turns the primary relay on.
28	S14	O	〃	60	x2	--	Non connection
29	S15	O	〃	61	X1	--	Connected to GND
30	NC	--	Non connection	62	Vss	--	Connected to GND
31	KEYIN0	O	Key matrix input	63	OSC2	--	Clock oscillation output
32	KEYIN1	I	〃	64	OSC1	--	Clock oscillation input

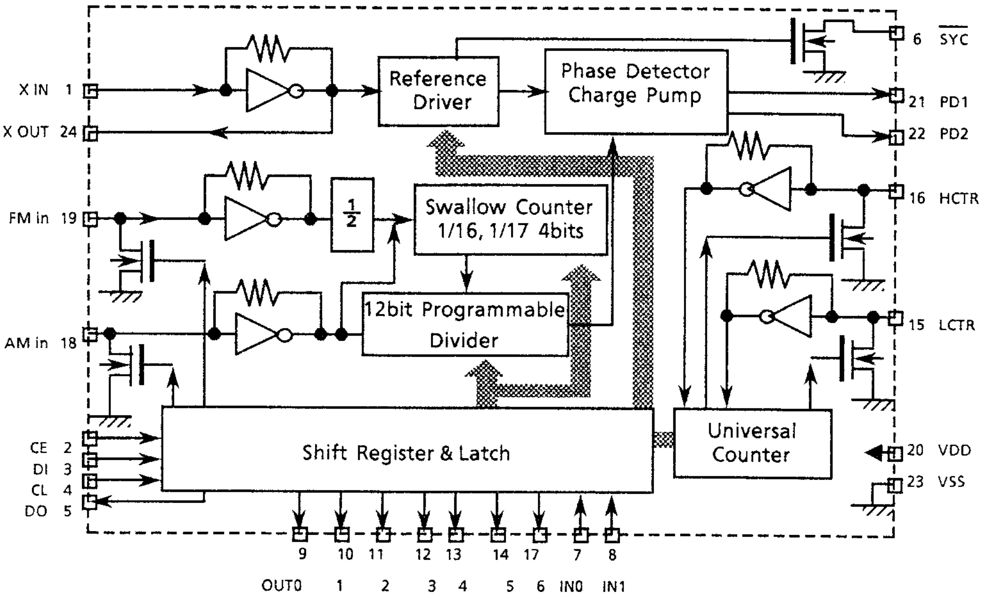
■ LC7218 (IC102) : PLL Synthesizer

1. The main function descriptions
   (1) It makes the local oscillation frequency by the control data from IC421.
   (2) Decode the control signal and transmit the signal for receiving conditions.
   (3) For the best tuning, count the internal-frequency and transmit the data to IC421.

2. Terminal Layout


X IN 1
CE 2
DI 3
CL 4
DO 5
SYC 6
IN0 7
IN1 8
OUT0 9
OUT1 10
OUT2 11
OUT3 12
24 X Out
23 V_{SS}
22 PD2
21 PD1
20 V_{DD}
19 FM-in
18 AM-in
17 OUT6
16 HCTR
15 LCTR
14 OUT5
13 OUT4

3. Block Diagram


X IN 1
X OUT 24
FM in 19
AM in 18
CE 2
DI 3
CL 4
DO 5
Reference Driver
Phase Detector Charge Pump
1/2
Swallow Counter 1/16, 1/17 4bits
12bit Programmable Divider
Shift Register & Latch
Universal Counter
6 SYC
21 PD1
22 PD2
16 HCTR
15 LCTR
20 VDD
23 VSS
9 10 11 12 13 14 17 7 8
OUT0 1 2 3 4 5 6 IN0 IN1

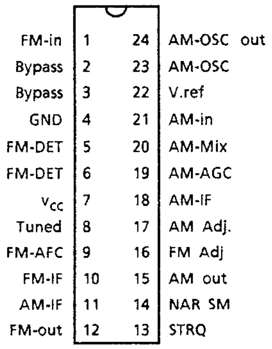
4. Pin Function Description

Pin No.	Symbol	I/O	Functions and Operations
1,24	X in , X out	I/O	Crystal oscillator (7.2MHz).
2	CE	I	Fix the chip enable to "H" when inputting (DI) and outputting (DO) the serial data.
3	DI	I	Receive the control data from the controller (IC421).
4	CL	I	This clock is used to synchronize data when transmitting the data of DI and DO.
5	DO	O	Transmit the data from LC7218 to the controller which is synchronized with CL.
6	$\overline{\text{SYC}}$	–	Not used.
7	Tuned in	I	Receive the tuned signal from IC104 (LA1266A).
8	Stop in	I	Not used.
9	POWER	O	Not used.
10	QSC	O	ON mode with " H " and OFF mode with " L ".
11	MONO	O	It is "H" on FM-monaural, "L" on FM-Stereo.
12	FM	O	It is "H" on FM mode.
13	MW	O	It is "H" on AM mode.
14	LW	–	Not used.
15	AM-IF	I	Universal counter input for AM-IF from IC104 (LA1266A).
16	FM-IF	I	Universal counter input for FM-IF from IC104(LA1266A).
17	IF REQ	O	Output the "IF-signal request" to IC104 when the pin-7 (tuned in) go to "H".
18	AM in	I	Input the local oscillator signal of AM.
19	FM in	I	Input the local oscillator signal of FM.
20	V_{DD}	–	This is a terminal of power supply.
21	PD1	O	PLL charge pump output: When the local oscillator signal frequency is higher than the reference frequency high level signals will output. When it is lower than the reference frequency, low level signals will output. When it is same as reference frequency signals, it will be floating.
22	PD2	O	Not used.
23	Vss	–	Power supply.

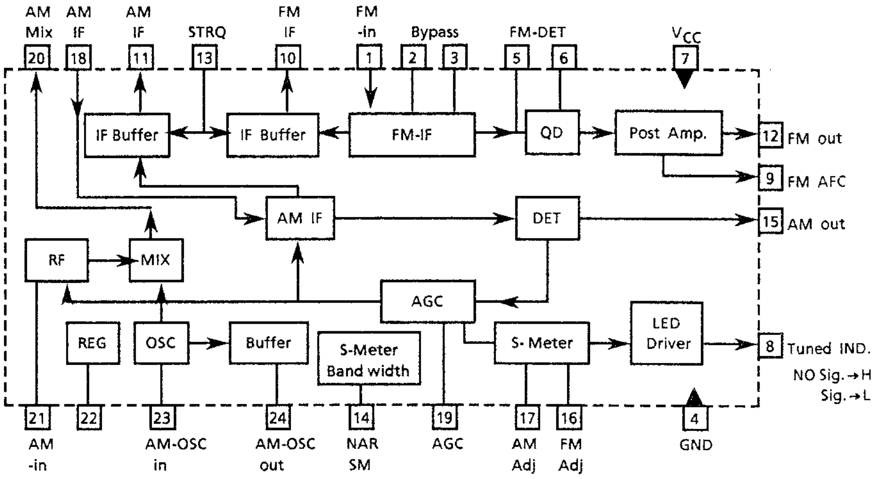
■ LA1266A (IC104) : FM AM IF AMP & detector

1. The main function descriptions
   (1) Amplify and detect of FM intermodulation frequencies.
   (2) It has local oscillator and mixer for AM, and amplify the AM-IF signal.

2. Top View


FM-in 1
Bypass 2
Bypass 3
GND 4
FM-DET 5
FM-DET 6
Vcc 7
Tuned 8
FM-AFC 9
FM-IF 10
AM-IF 11
FM-out 12
24 AM-OSC out
23 AM-OSC
22 V.ref
21 AM-in
20 AM-Mix
19 AM-AGC
18 AM-IF
17 AM Adj.
16 FM Adj
15 AM out
14 NAR SM
13 STRQ

3. Block Diagram


AM Mix 20
AM IF 18
AM IF 11
STRQ 13
FM IF 10
FM -in 1
Bypass 2 3
FM-DET 5 6
Vcc 7
IF Buffer
IF Buffer
FM-IF
QD
Post Amp.
12 FM out
9 FM AFC
AM IF
DET
15 AM out
RF
MIX
AGC
REG
OSC
Buffer
S-Meter Band width
S- Meter
LED Driver
8 Tuned IND.
NO Sig.→H
Sig.→L
21 AM -in
22
23 AM-OSC in
24 AM-OSC out
14 NAR SM
19 AGC
17 AM Adj
16 FM Adj
4 GND

4. Pin Function Description

Pin No.	Symbol	I/O	Functions and Operations
1	FM in	I	This is an input terminal of FM IF Signal.
2,3	Bypass	--	Bypass of FM IF Amp.
4	GND	--	This is the device ground terminal.
5,6	FM DET	--	FM detect transformer.
7	V_{CC}	--	This is the power supply terminal.
8	Tuned	O	Whe the set is tunning ,this terminal become "L".
9	FM AFC	O	This is an output terminal of voltage for FM - AFC.
10	FM IF out	O	When the signal of IF REQ of IC102(LC7218) applied to pin17, the signal of FM IF does output.
11	AM IF out	O	When the signal of IF REQ of IC102(LC7218) applied to pin17, the signal of AM IF does output.
12	FM out	O	FM detection output.
13	STRQ	I	The IF-signals come out from pin10 (FM-IF) or pin11 (AM-IF) while this terminal going to "High".
14	NAR SM	--	Control the Band-width of signal meter.
15	AM out	O	AM detection output.
16	FM Adj	--	For adjust the stop level (or mute level) of FM.
17	AM Adj	--	For adjust the stop level (or mute level) of AM.
18	AM-IF	I	Input of AM IF Signal.
19	AM-AGC	I	This is an AGC voltage Input terminal for AM.
20	AM-MIX	O	This is an output terminal for AM mixer.
21	AM-IN	I	This is an input terminal for AM RF Signal.
22	V.REF	--	Register value between pin9 and pin22 desides the frequency width of the input signal.
23	AM-OSC	--	This is a terminal of AM Local oscillation circuit.
24	AM-OSC out	O	AM Local Oscillation Signal output.

■ LA3401 (IC105) : FM MPX Detector

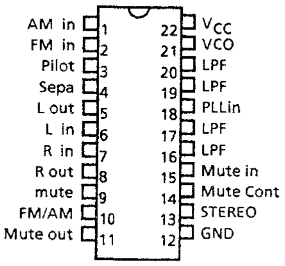
1. The main function descriptions

(1) Detect the FM Multiplex Signal (Stereo signal).

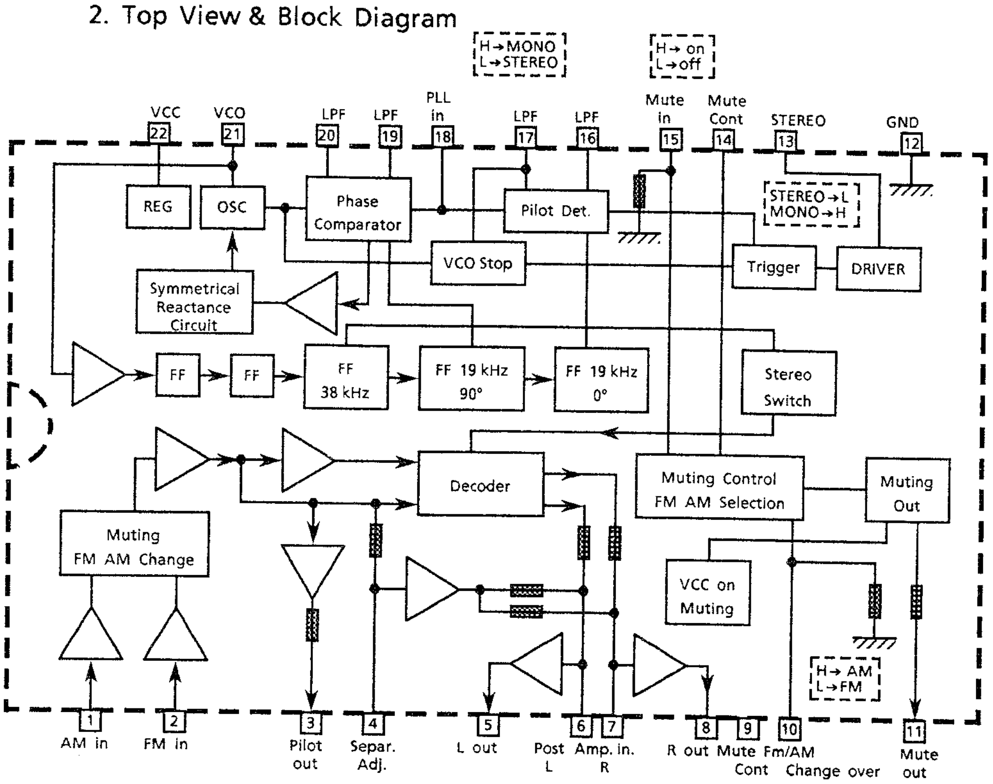
(2) When receiving FM Stereo Signal, it outputs the signal for indicator.

(3) AM/FM Audio Amplifier.

(1) Terminal Layout


AM in 1
FM in 2
Pilot 3
Sepa 4
L out 5
L in 6
R in 7
R out 8
mute 9
FM/AM 10
Mute out 11
22 Vcc
21 VCO
20 LPF
19 LPF
18 PLLin
17 LPF
16 LPF
15 Mute in
14 Mute Cont
13 STEREO
12 GND

2. Top View & Block Diagram


H→MONO
L→STEREO
H→ on
L→off
VCC 22
VCO 21
LPF 20
LPF 19
PLL in 18
LPF 17
LPF 16
Mute in 15
Mute Cont 14
STEREO 13
GND 12
REG
OSC
Phase Comparator
Pilot Det.
STEREO→L
MONO→H
VCO Stop
Trigger
DRIVER
Symmetrical Reactance Circuit
FF
FF
FF 38 kHz
FF 19 kHz 90°
FF 19 kHz 0°
Stereo Switch
Decoder
Muting Control FM AM Selection
Muting Out
Muting FM AM Change
VCC on Muting
H→ AM
L→FM
1 AM in
2 FM in
3 Pilot out
4 Separ. Adj.
5 L out
6 Post L
7 Amp. in. R
8 R out
9 Mute Cont
10 Fm/AM Change over
11 Mute out

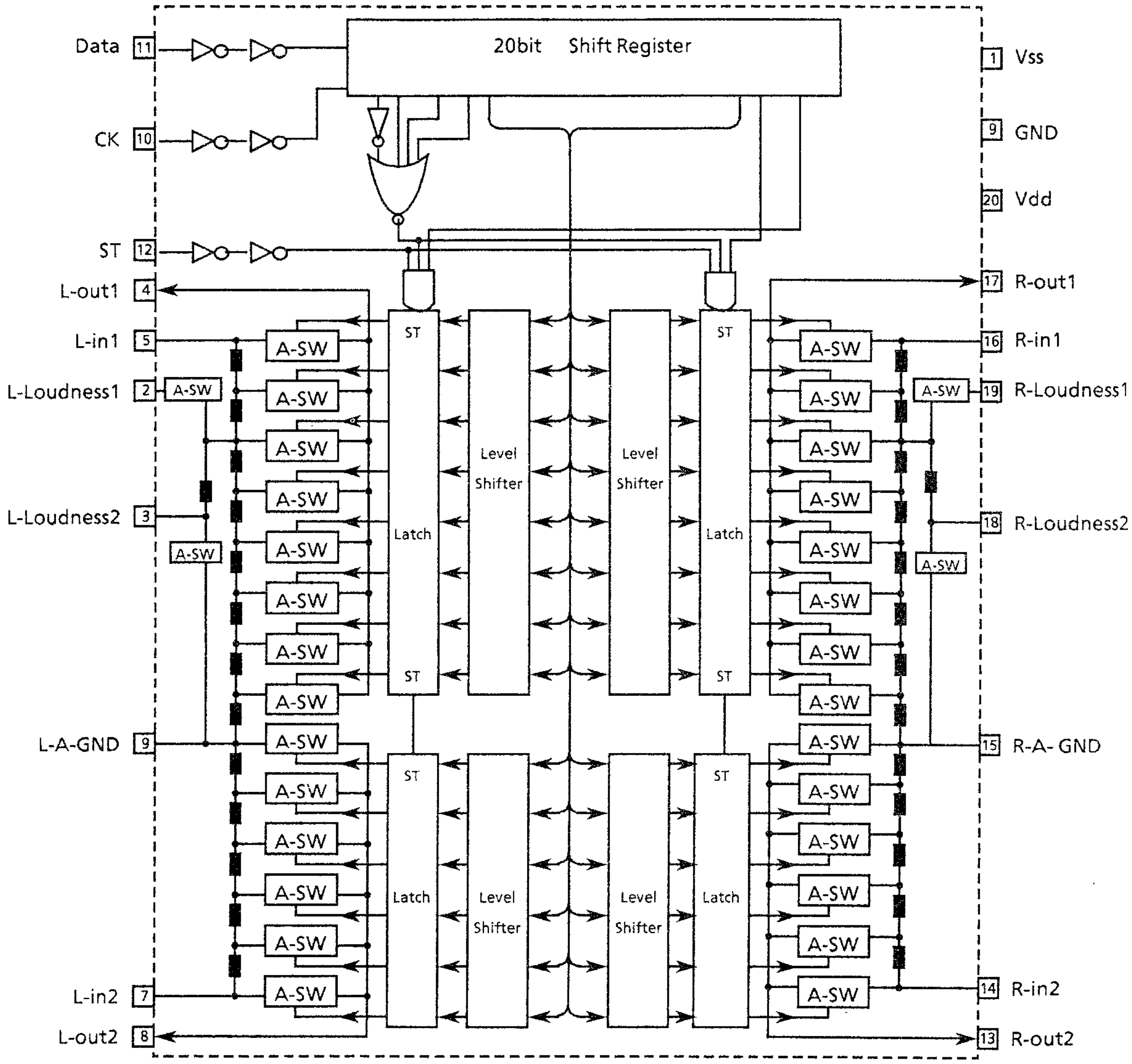
3. Pin Function Description

Pin No.	Symbol	I/O	Functions and Operations
1	AM in	I	This is an input terminal for AM detection signal.
2	FM in	I	This is an input terminal for FM detection signal.
3	Pilot out	O	Output of MPX pilot signal (Connect to Pin18).
4	Sepa. Adj.	--	Separation adjustment.
5	L. out	O	Left channel signal output.
6	L	O	Reversal output of Pin5.
7	R	O	Reversal output of Pin8.
8	R out	O	Right channel signal output
9	Mute Cont	--	The mute time is controlled by the connected capacitor when turning the power switch on.
10	FM / AM	I	Change over the FM / AM input. "H" : AM, "L" : FM
11	Mute out	---	Not use
12	GND	--	Ground terminal.
13	Stereo	O	Stereo indicator output. Stereo : "L", Mono : "H"
14	Mute Cont	--	The mute time is controlled by the connected capacitor when changing over the FM / AM .
15	Mute in	I	Mute signal input. "H" : Mute on, "L" : Mute off.
16	LPF	--	Low pass filter of pilot detector.
17	LPF	--	While this terminal goes to "H", the VCO stop.
18	Pilot in	I	PLL input.
19	LPF	--	Low-pass filter of PLL.
20	LPF	--	Low-pass filter of PLL.
21	VCO	I	Voltage controlled oscillator terminal.
22	V_{CC}	--	Power supply.

Internal Block Diagram of Other ICs

■ TC9177P (IC361) : Electronic Volume

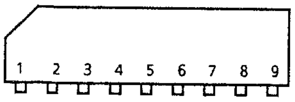
(1) Intetrnal Block Diagram

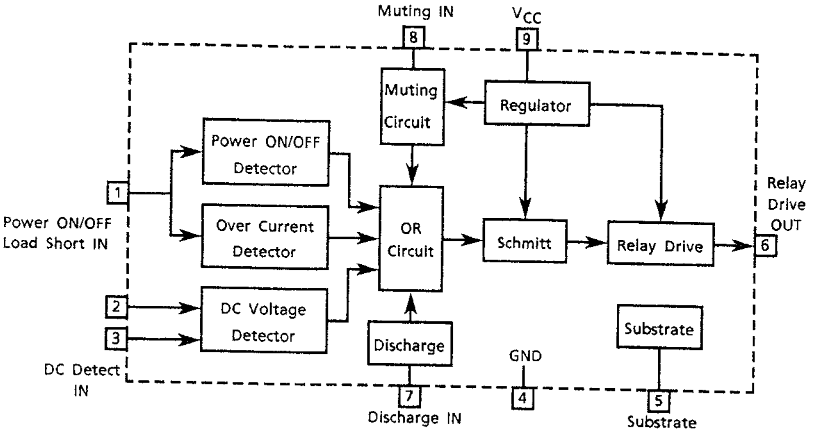

Data 11
CK 10
ST 12
L-out1 4
L-in1 5
L-Loudness1 2
L-Loudness2 3
L-A-GND 9
L-in2 7
L-out2 8
20bit Shift Register
1 Vss
9 GND
20 Vdd
17 R-out1
16 R-in1
19 R-Loudness1
18 R-Loudness2
15 R-A- GND
14 R-in2
13 R-out2
A-SW
ST
Latch
Level Shifter

(2) Pin Function

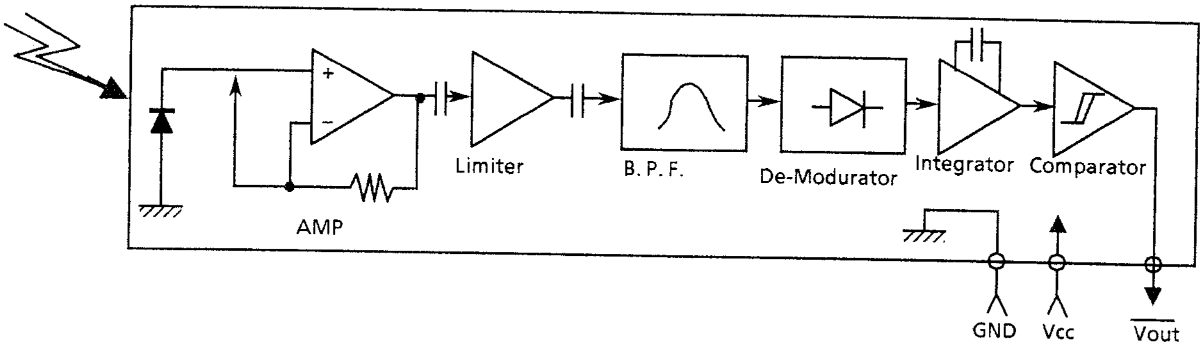
Pin No	Symbol	Function	Pin No	Symbol	Function
1	Vss	Power Supply(– 14V)	11	DATA	Data Input
2	L- Loudness1	Terminal for Loudness (L-ch)	12	ST	Strobe Input
3	L- Loudness2	Terminal for Loudness (L-ch)	13	R-out2	Attenuator Output (2dB step)
4	L-out1	Attenuator Output (10dB step)	14	R-in2	Attenuator Input
5	L-in1	Attenuator Input	15	A GND	Ground (Power supply)
6	A GND	Ground (Power supply)	16	R-in1	Attenuator Input
7	L-in2	Attenuator Input	17	R-out1	Attenuator Output (10dB step)
8	L-out2	Attenuator Output (2dB step)	18	R- Loudness1	Terminal for Loudness (R-ch)
9	GND	Ground (Signal)	19	R- Loudness2	Terminal for Loudness (R-ch)
10	CK	Clock Input	20	Vdd	Power Supply

■ TA7317P (IC901) : Protector

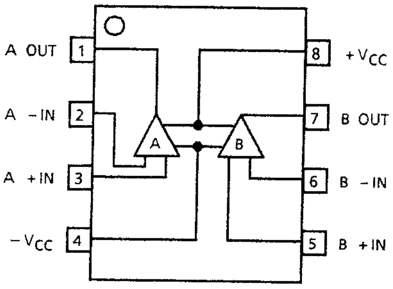



Muting IN
8
Vcc
9
Muting Circuit
Regulator
Power ON/OFF Detector
1
Power ON/OFF Load Short IN
Over Current Detector
OR Circuit
Schmitt
Relay Drive
Relay Drive OUT
6
2
3
DC Voltage Detector
DC Detect IN
Discharge
GND
Substrate
7
Discharge IN
4
5
Substrate

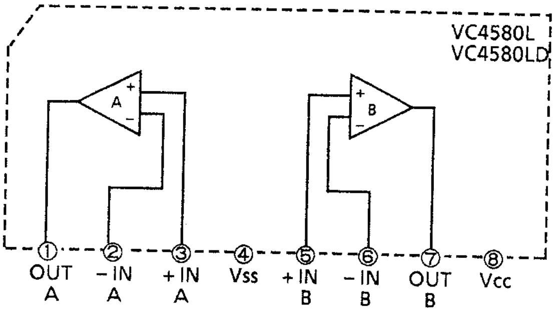
■ SPS-420-1 (IC402) : Remocon Module IC


+
−
AMP
Limiter
B. P. F.
De-Modurator
Integrator
Comparator
GND
Vcc
Vout

■ NJM4560DD(IC701): Dual OP amp.

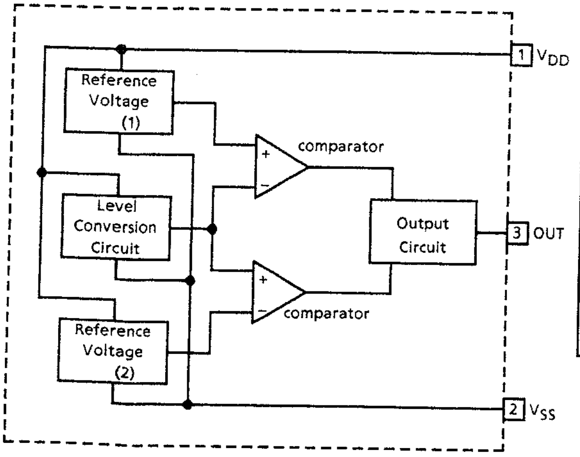

A OUT
1
A −IN
2
A +IN
3
−Vcc
4
8
+Vcc
7
B OUT
6
B −IN
5
B +IN
A
B

■ VC4580LD(IC301)
VC4580L(IC331,332,362): Dual OP amp.


VC4580L
VC4580LD
A
B
+
−
① OUT A
② −IN A
③ +IN A
④ Vss
⑤ +IN B
⑥ −IN B
⑦ OUT B
⑧ Vcc

■ MN1281(P.Q) (IC491): Reset IC

Block Diagram


1 VDD
Reference Voltage (1)
comparator
+
−
Level Conversion Circuit
Output Circuit
3 OUT
comparator
Reference Voltage (2)
2 VSS

Pin No.	Pin Name	Functions
1	V_{DD}	Power supply
2	V_{SS}	Ground
3	OUT	Reset signal output : Low level is output when resetting : High level is output when cancelling the reset.

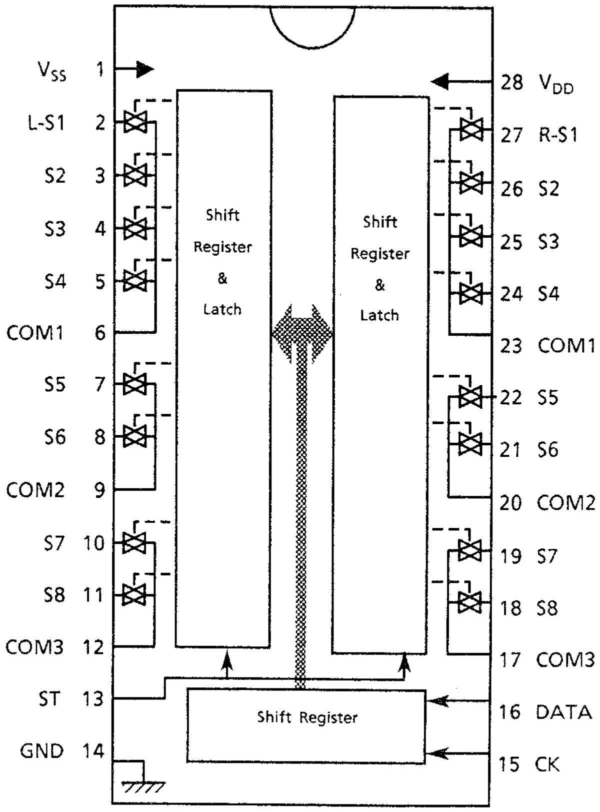
■ TC9164N (IC321) : Analog Switch

1. Functions
   These analog switches are controlled by 14 bit serial date from computer for selecting the source.

2. Terminal Layout & Block diagram
3. First 10bits are used to source select. Last 4 bits are chip select. The switches (S1~S8) are connected to common terminals (COM1~COM3) according to the DATA from computer.

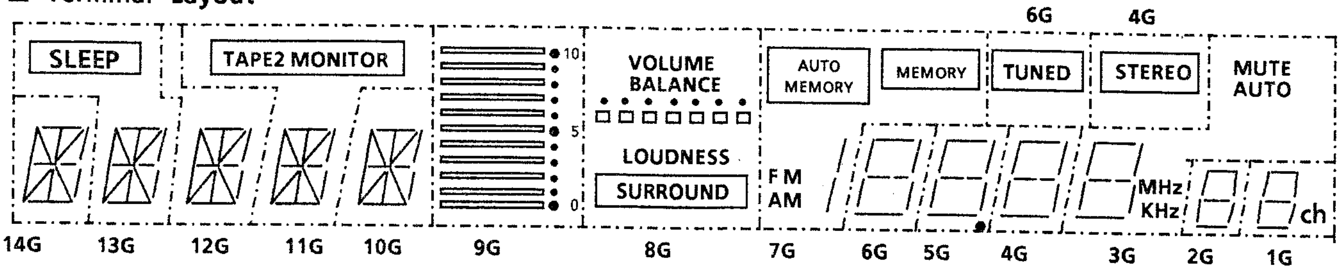
	Chip select bit			
	S11	S12	S13	S14
TC9163N	1	0	0	0
TC9164N	0	1	0	0

TC9164N(IC321)


VSS 1
L-S1 2
S2 3
S3 4
S4 5
COM1 6
S5 7
S6 8
COM2 9
S7 10
S8 11
COM3 12
ST 13
GND 14
28 VDD
27 R-S1
26 S2
25 S3
24 S4
23 COM1
22 S5
21 S6
20 COM2
19 S7
18 S8
17 COM3
16 DATA
15 CK
Shift Register & Latch
Shift Register & Latch
Shift Register

Internal Wiring of FL Display (FL401:ELU0001-096)

■ Terminal Layout

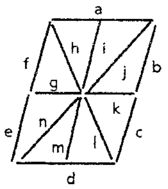

6G
4G
SLEEP
TAPE2 MONITOR
10
5
0
VOLUME
BALANCE
LOUDNESS
SURROUND
AUTO MEMORY
MEMORY
TUNED
STEREO
MUTE
AUTO
FM
AM
MHz
KHz
ch
14G
13G
12G
11G
10G
9G
8G
7G
6G
5G
4G
3G
2G
1G

■ Terminal Connection

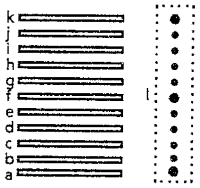
Notes ;F (Filament) , G (Grid) , P (Anode) , NP (No Pin)

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC401 Pin No.	-	-	-	17	7	19	27	8	26	28	9	16	25	21	10	20	24	11	22	23
Electrode	F	F	NP	P (S4)	14G	P (S5)	P (S13)	13G	P (S12)	P (S14)	12G	P (S3)	P (S11)	P (S7)	11G	P (S6)	P (S10)	10G	P (S8)	P (S9)
Terminal No.	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
IC401 Pin No.	24	15	14	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Electrode	P (S9)	P (S2)	P (S1)	P (S15)	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	9G
Terminal No.	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	
IC401 Pin No.	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IC421 Pin No.	-	28	29	30	31	16	17	26	32	27	25	33	18	24	34	15	-	-	-	
Electrode	8G	7G	6G	5G	4G	P (S17)	P (S18)	P (S22)	3G	P (S23)	P (S21)	2G	P (S19)	P (S20)	1G	P (S16)	NP	F	F	

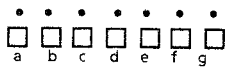
■ Internal Connection


a
h
i
f
g
j
b
k
e
n
c
m
l
d

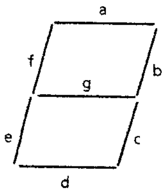
(10G~14G)


k
j
i
h
g
f
e
d
c
b
a
l

9G



8G



(1G~6G)

SOURCE SECTION

	14G	13G	12G	11G	10G	9G	8G
S1	a	a	a	a	a	-	BALANCE
S2	b	b	b	b	b	-	●●●●●●●●
S3	c	c	c	c	c	f	LOUDNESS
S4	d	d	d	d	d	a	SURROUND
S5	e	e	e	e	e	b	a
S6	f	f	f	f	f	i	d
S7	g	g	g	g	g	h	c
S9	h	h	h	h	h	k	f
S9	i	i	i	i	i	l	g
S10	j	j	j	j	j	j	e
S11	k	k	k	k	k	g	b
S12	l	l	l	l	l	d	-
S13	m	m	m	m	m	c	-
S14	n	n	n	n	n	e	-
S15	-	SLEEP	-	TAPE 2 MONITOR	-	-	VOLUME

TUNER SECTION

	7G	6G	5G	4G	3G	2G	1G
S16	-	TUNED	●	STEREO	MUTE AUTO	-	ch
S17	AUTO MEMORY	a	a	a	-	a	a
S18	-	b	b	b	MHz	c	c
S19	MEMORY	c	c	c	KHz	c	c
S20	-	d	d	d	g	d	d
S21	FM	e	e	e	c , f	e	e
S22	AM	f	f	f	b , e	f	f
S23	/	g	g	g	a , d	g	g

Disassembly Procedures

(1) Removing the Top Cover

1. Remove the 4 screws fastening both sides of the Top Cover, and the 2 screws fastening the rear sides.
2. Remove the Top Cover.

(2) Removing the Bottom Cover

1. Remove the 16 screws Ⓔ .
2. Remove the Bottom Cover.

(3) Removing the Front Panel

1. Remove the 3 screws Ⓐ fastening top of the Front Panel, and the 4 screws Ⓕ fastening bottom of the Front Panel.
2. Remove the Tone Control knobes(TREBLE ,BASS).
3. Remove the Front Panel.

Note : When installing the Front Panel,lay the C402 to the lower, and confirm that the C401, Q492 and the Q493 are vertical against the P.C.Board.(Fig. 5)

(4) Removing the Tuner P.C. Board

1. Disconnect the P103,and cut the Tie band.
2. Remove the 6 screws Ⓑ, Ⓒ and Ⓓ, and take it out.

(5) Removing the Power Transistor

1. Unsolder the broken transistor.
2. Remove the screw fastening it.
3. Remove it.

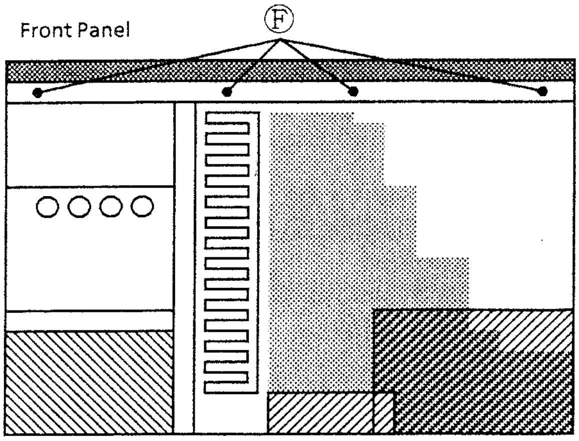


Fig 4. Bottom View

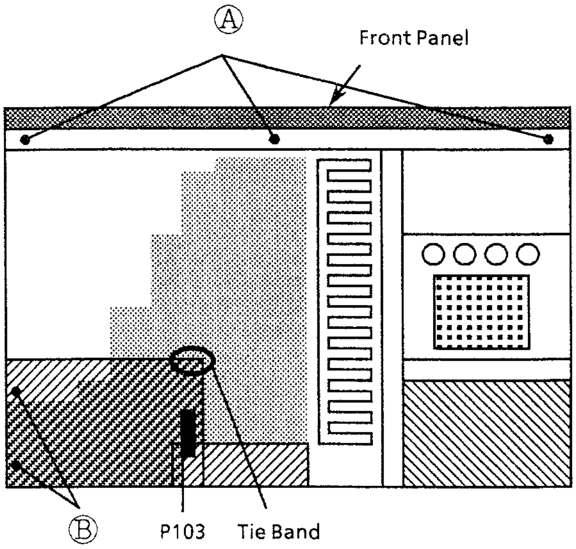


Fig 1. Top View

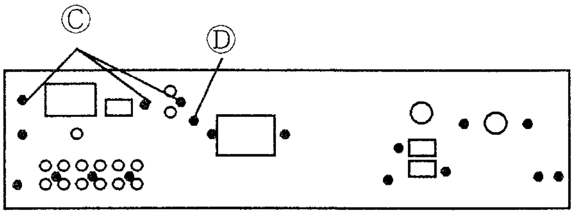


Fig 2. Rear View

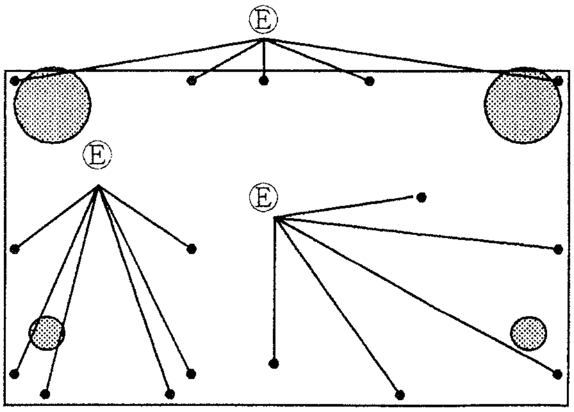


Fig 3. Bottom Cover

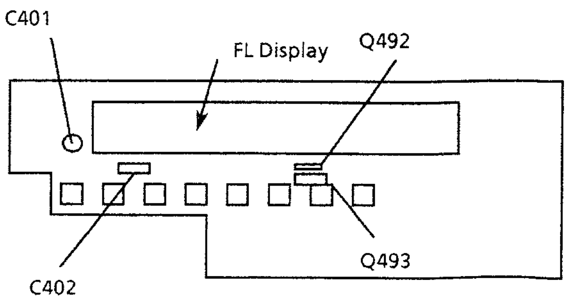
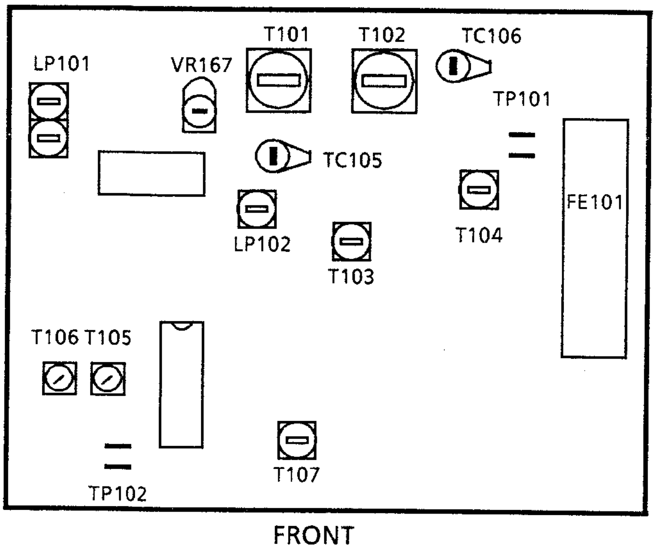


Fig 5. Front P.C. Board(ENH-169-6)

FM/AM Tuner Alignment Procedures



1. FM section

■ FM oscillator :

(1) Set the frequency display to "108.0MHz".

(2) Confirm the FM inter-station noise is received.

(3) Confirm the voltage of test point "TP101" becomes 8.0V±2.0V.

(4) Set the frequency display to "87.5MHz" and confirm the voltage of test point "TP101" becomes 0.6V~2.6V.

■ FM detector coil : T105, T106

(1) Connect a digital voltmeter to test point "TP102", and receive to "100.1MHz" signal with SSG ATT 70 dB.

(2) Adjust T105 so that the digital voltmeter reads 0±1.5mV.

(3) At the same time, Adjust T106 so that the distortion of the output is minimised.

■ FM separation: VR167 (For continental Europe, Germany, Australlia and the U.K.)

(1) Receive a stereo signal.

(2) Adjust VR 167 so that channel separation becomes maximam.

2. MW section

Note: 〔 〕 :U.S.A., Canada
( ) : Australlia,the U.K. and Continental Europe
{ } : Other coutries Channel space 9kHz
[ ] :Other coutries Channel space 10kHz

■ MW oscillator : T103

(1) Set the frequency display to 〔 530kHz 〕 (522kHz) {531kHz} [530kHz] and confirm the voltage of test point TP101 becomes 0.9V±0.2V.

(2) Set the frequency display to 〔 1710kHz 〕 (1629kHz) {1602kHz} [1600kHz] and confirm the voltage of test point TP101 becomes 〔 8.0±0.8V 〕 (7.5V±0.8V) {7.2V±0.7V} [7.2±0.7V].

(3) If its voltage exceeds the allowance, adjust T103 to obtain the voltage.

■ MW antenna coil : T101

(1) Connect a loop antenna to the "AM Loop" terminal on the rear panel.

(2) Adjust T101 to obtain the best receiving sensitivity on 600kHz or 603kHz.

■ MW antenna trimmer : TC105

(1) Adjust TC105 to obtain the best receiving sensitivity on 1400kHz or 1404kHz.

3. LW section (for RX-304LBK,305LTN)

Note:[ ] for Italy

■ LW oscillation :T104

(1) Set the frequency display to 144kHz and adjust T104 so that the voltage of TP101 becomes 0.8±0.4V[0.8V±0.1V].

(2) Set the frequency display to 353kHz [290kHz] and confirm the voltge of test point TP101 becomes 7.7V±0.6V [5.7V±0.5].

■ LW antenna coil : T102

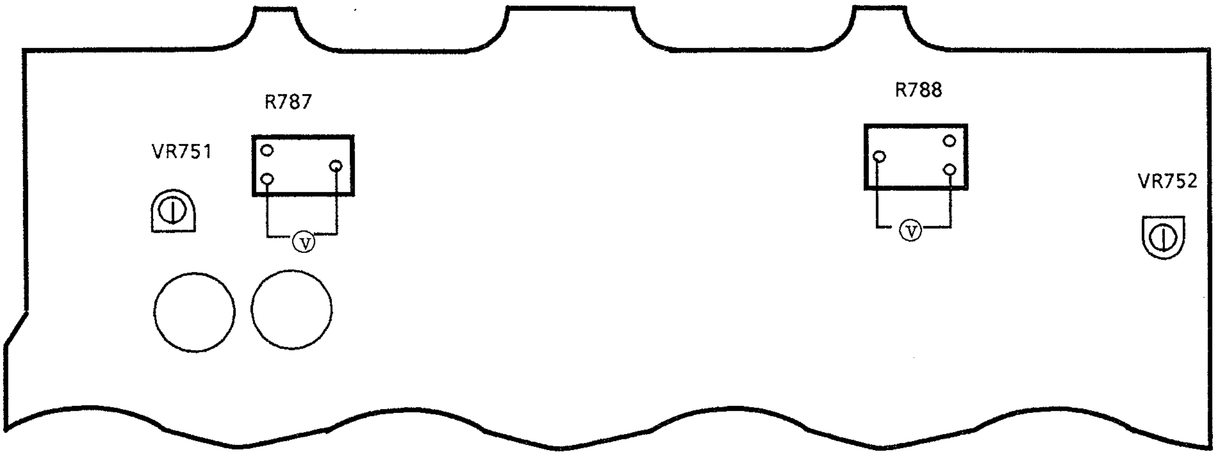
(1) Connect a loop antenna to the "AM Loop" terminal on the rear panel.

(2) Adjust T102 to obtain the best receiving sensitivity on 164kHz [164kHz].

■ LW antenna trimmer : TC106

(1) Adjust TC106 to obtain the best receiving sensitivity on 353kHz [245kHz].

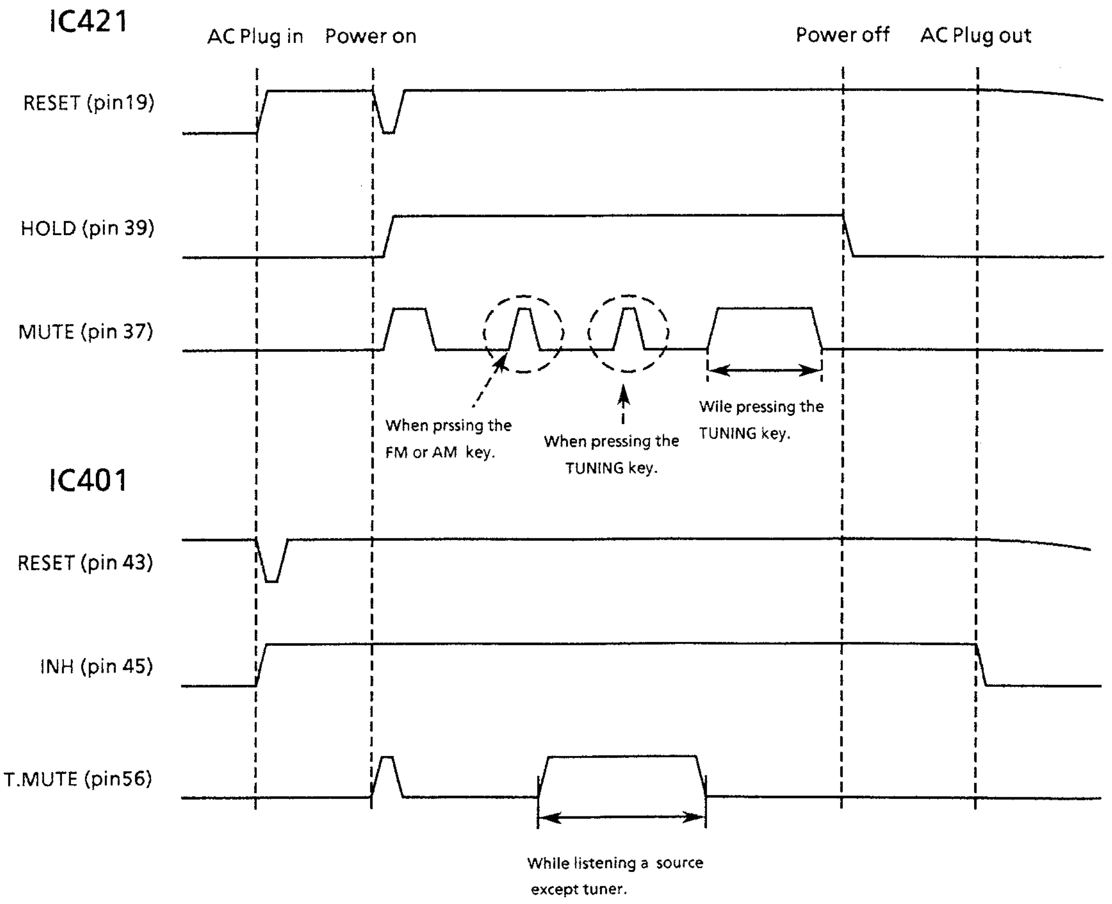
Power Amplifier Adjustment Procedures


R787
R788
VR751
VR752
V
V

■ Idling Current

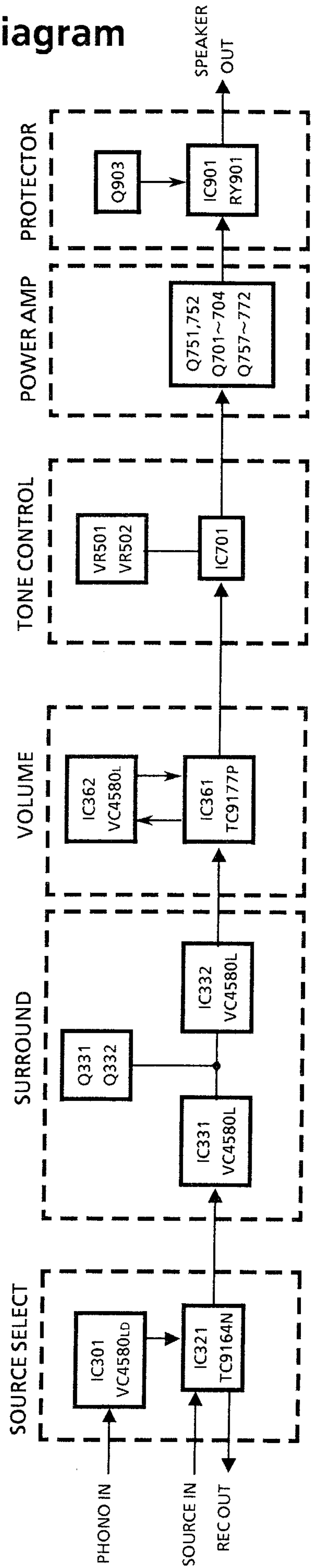
(1) Set the volume control to minimum during this adjustment.
(2) Turn R751 and R752 fully counterclockwise before the power switch on.
(3) Always start from cold,and allow 5 minutes to warm up before adjustment.If the heatsink is already warm from previous use the correct adjustment can not be made.
(5) Connect a DC voltmeter to R787 resistor's leads for left channel, or to R788 for right channel.
(6) Adjust R751 for left channel, or 752 for right channel, so that the DC voltmeter becomes 2mV ~ 7mV

Timing Chart

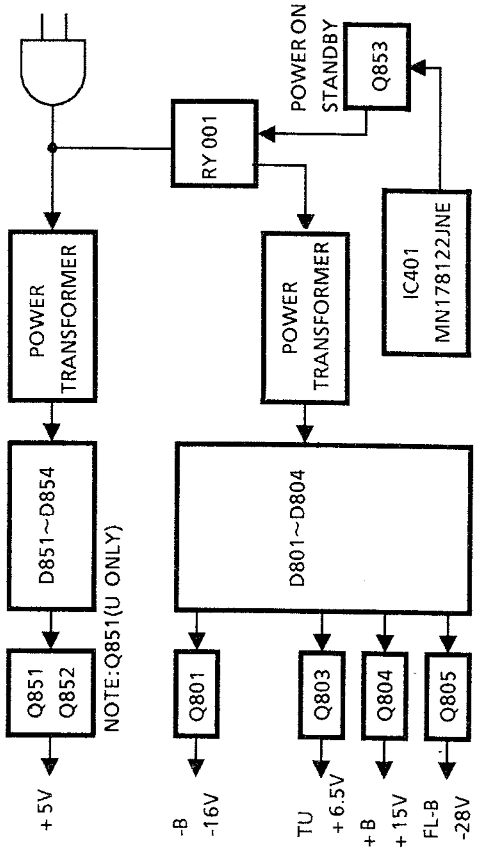

IC421
AC Plug in
Power on
Power off
AC Plug out
RESET (pin19)
HOLD (pin 39)
MUTE (pin 37)
When prssing the FM or AM key.
When pressing the TUNING key.
Wile pressing the TUNING key.
IC401
RESET (pin 43)
INH (pin 45)
T.MUTE (pin56)
While listening a source except tuner.

Block Diagram

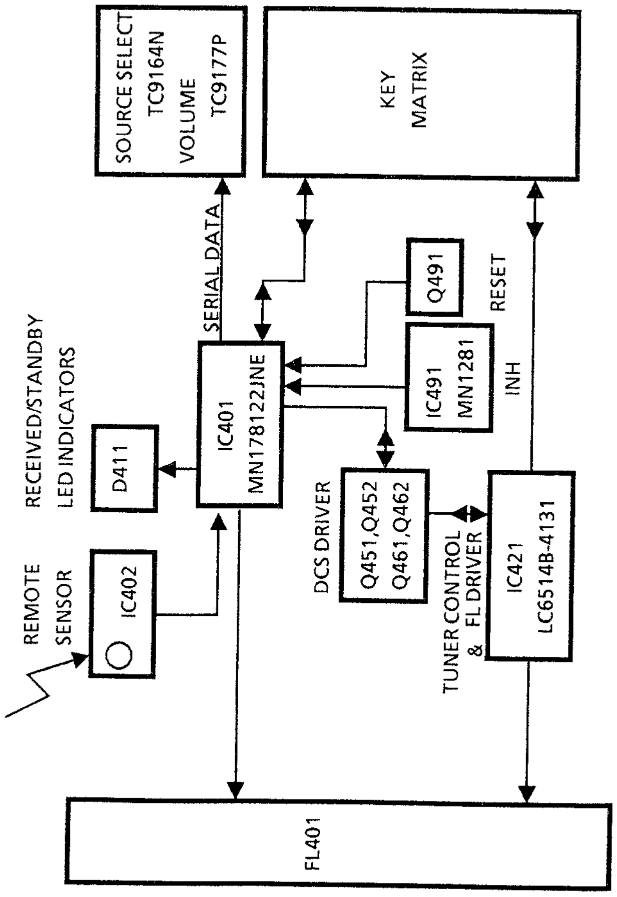
■ Signal Flow


SOURCE SELECT
IC301
VC4580LD
IC321
TC9164N
PHONO IN
SOURCE IN
REC OUT
SURROUND
IC331
VC4580L
Q331
Q332
IC332
VC4580L
VOLUME
IC361
TC9177P
IC362
VC4580L
TONE CONTROL
IC701
VR501
VR502
POWER AMP
Q751,752
Q701~704
Q757~772
PROTECTOR
IC901
RY901
Q903
SPEAKER
OUT

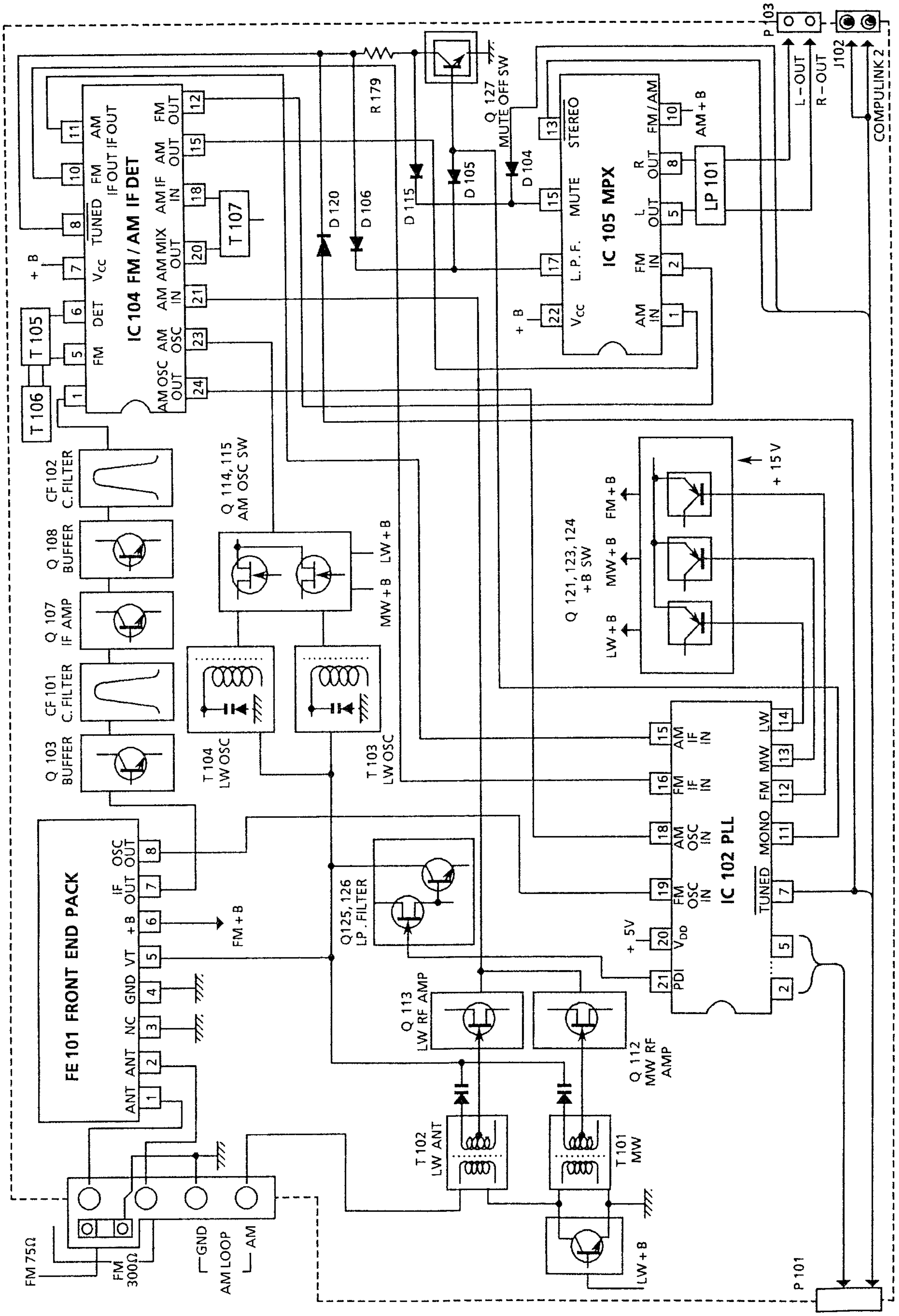
■ Power Supply Section


POWER TRANSFORMER
D851~D854
Q851
Q852
+5V
NOTE:Q851(U ONLY)
RY 001
POWER TRANSFORMER
D801~D804
Q801
-B
-16V
Q803
TU
+6.5V
Q804
+B
+15V
Q805
FL-B
-28V
Q853
POWER ON
STANDBY
IC401
MN178122JNE

■ Control Section


SOURCE SELECT
TC9164N
VOLUME
TC9177P
KEY
MATRIX
SERIAL DATA
Q491
RESET
IC491
MN1281
INH
IC401
MN178122JNE
D411
RECEIVED/STANDBY
LED INDICATORS
REMOTE
SENSOR
IC402
DCS DRIVER
Q451,Q452
Q461,Q462
TUNER CONTROL
& FL DRIVER
IC421
LC6514B-4131
FL401

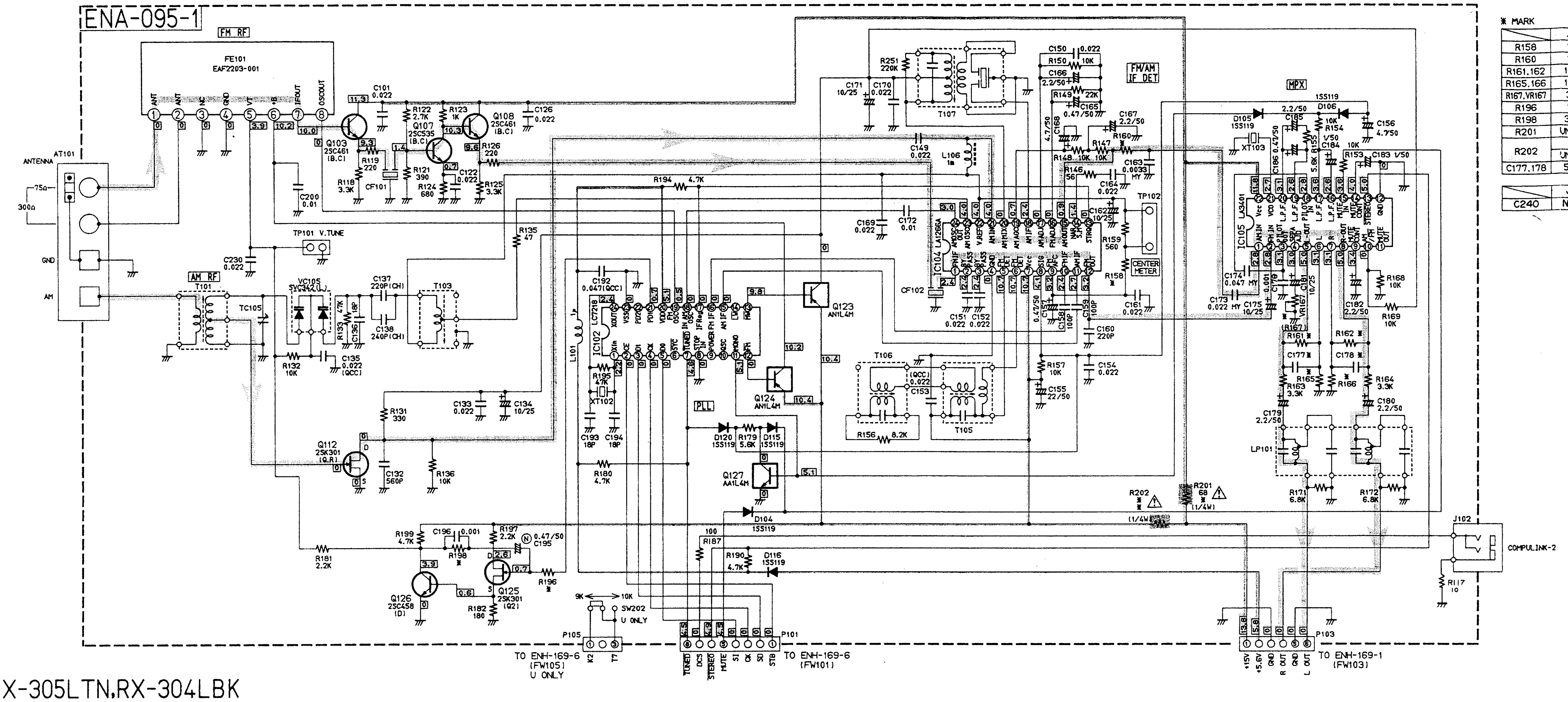
■ Tuner Section


FE 101 FRONT END PACK
ANT
ANT
NC
GND
VT
+B
IF OUT
OSC OUT
FM+B
FM 75Ω
FM 300Ω
GND
AM LOOP
AM
LW+B
Q 103 BUFFER
CF 101 C. FILTER
Q 107 IF AMP
Q 108 BUFFER
CF 102 C. FILTER
T 106
T 105
IC 104 FM / AM IF DET
AM OSC OUT
FM DET
Vcc
TUNED
FM IF OUT
AM IF OUT
FM OUT
AM OUT
AM IF IN
AM MIX OUT
AM IN
AM OSC
+B
T 107
Q 114, 115 AM OSC SW
MW+B
LW+B
T 104 LW OSC
T 103 LW OSC
Q125, 126 LP. FILTER
Q 113 LW RF AMP
Q 112 MW RF AMP
T 102 LW ANT
T 101 MW
D 120
D 106
R 179
D 115
D 105
D 104
Q 127 MUTE OFF SW
IC 105 MPX
Vcc
L. P. F.
MUTE
STEREO
FM/AM
AM IN
FM IN
L OUT
R OUT
+B
AM+B
LP 101
L-OUT
R-OUT
P 103
J102
COMPULINK 2
Q 121, 123, 124 +B SW
LW+B
MW+B
FM+B
+15 V
IC 102 PLL
AM IF IN
FM IF IN
AM OSC IN
FM OSC IN
PDI
VDD
+5V
TUNED
MONO
FM
MW
LW
P 101

MEMO

Schematic Diagrams (1) Tuner Section

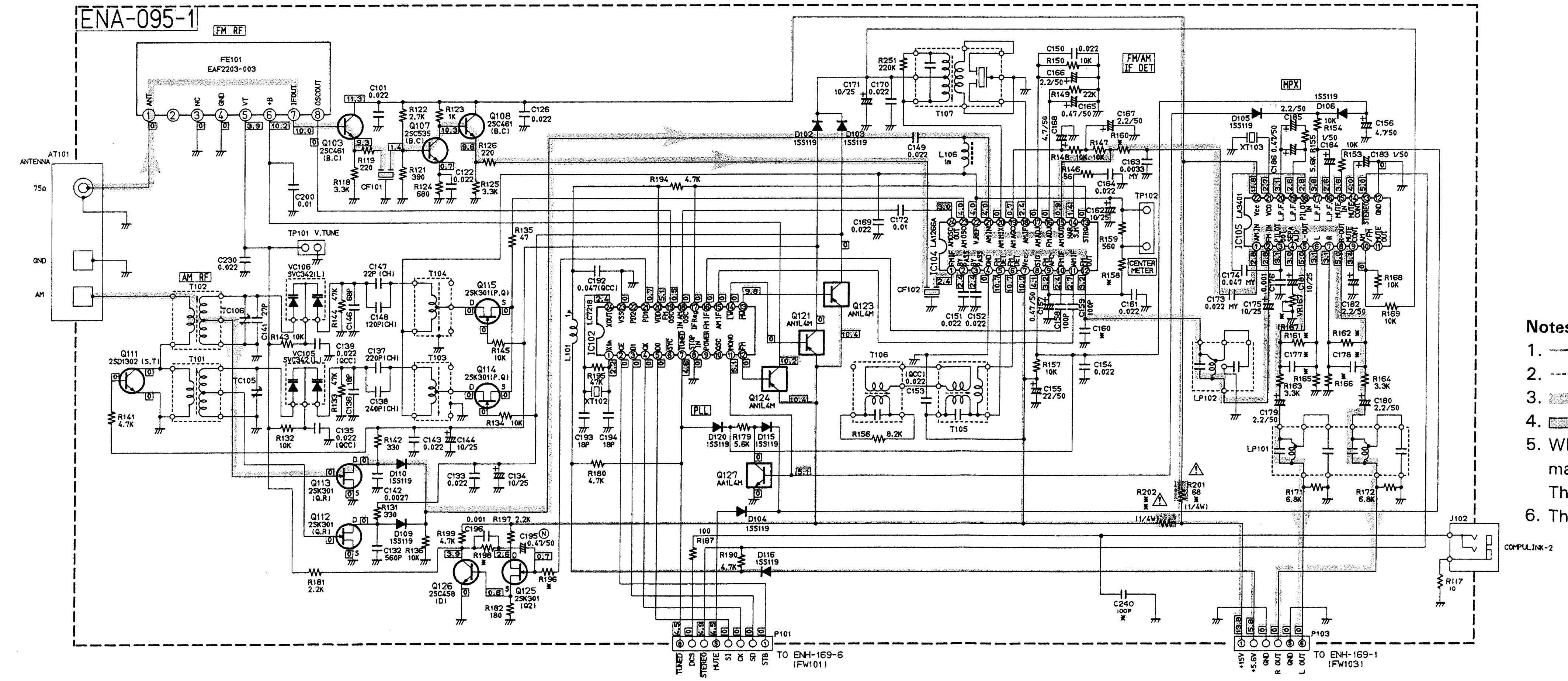
RX-305TN,RX-304BK


ENA-095-1
FM RF
FE101
EAF2203-001
ANTENNA
AT101
75Ω
300Ω
GND
AM
AM RF
T101
TC105
VC105
TP101 V.TUNE
C230 0.022
C200 0.01
Q103 2SC461 (B.C)
Q107 2SC535 (B.C)
Q108 2SC461 (B.C)
CF101
Q112 2SK301 (Q.R)
T103
L101
IC102 LC7218
XT102
PLL
Q123 AN1L4M
Q124 AN1L4M
Q127 AA1L4M
D120 1SS119
D115 1SS119
D104 1SS119
D116 1SS119
Q126 2SC458 (D)
Q125 2SK301 (Q2)
SW202
9K
10K
U ONLY
P105
TO ENH-169-6 (FW105) U ONLY
P101
TO ENH-169-6 (FW101)
TUNED
DCS
STEREO
MUTE
SI
CK
SO
STB
IC104 LA1266A
CF102
T106
T105
T107
FM/AM IF DET
TP102
CENTER METER
MPX
IC105 LA3401
XT103
D105 1SS119
D106 1SS119
LP101
R201
R202
J102
COMPULINK-2
R117 10
P103
TO ENH-169-1 (FW103)
+15V
+5.6V
R OUT
GND
L OUT

✻ MARK	J,C	U	A	LE,LBS,LG
R158	18K	27K	27K	27K
R160	12K	12K	22K	22K
R161,162	120K	120K	180K	180K
R165,166	180K	180K	270K	270K
R167,VR167	39K	39K	100K VR	100K VR
R196	10K	10K	10K	2.2K
R198	3.3K	3.3K	3.3K	8.2K
R201	UNF.C.	UNF.C.	UNF.F.	UNF.F.
R202	47	47	47	22
	UNF.C.	UNF.C.	UNF.F.	UNF.F.
C177,178	560P	560P	270P	270P

	J,C	U	A	LE,LBS	LG
C240	NONE	NONE	NONE	NONE	USED

RX-305LTN,RX-304LBK

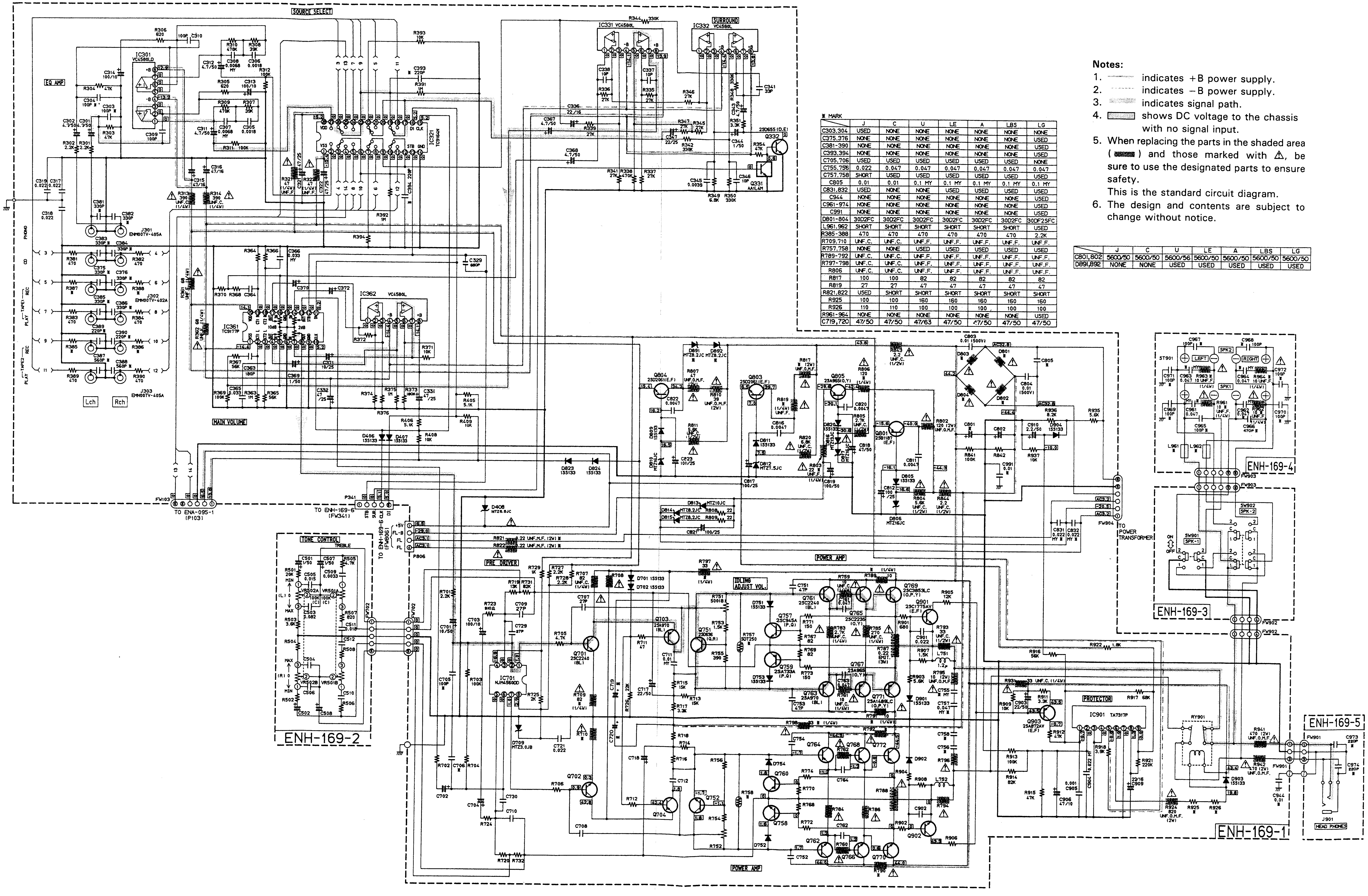

ENA-095-1
FM RF
FE101
EAF2203-003
ANTENNA
AT101
75Ω
GND
AM
AM RF
T102
T101
TC106
TC105
VC106
VC105
Q111 2SD1302 (S.T)
Q113 2SK301 (Q.R)
Q112 2SK301 (Q.R)
Q114 2SK301 (P.Q)
Q115 2SK301 (P.Q)
T104
T103
D110 1SS119
D109 1SS119
TP101 V.TUNE
IC102 LC7218
PLL
Q121 AN1L4M
Q123 AN1L4M
Q124 AN1L4M
Q127 AA1L4M
D102 1SS119
D103 1SS119
Q126 2SC458 (D)
Q125 2SK301 (Q2)
P101
TO ENH-169-6 (FW101)
TUNED
DCS
STEREO
MUTE
SI
CK
SO
STB
IC104 LA1266A
FM/AM IF DET
TP102
CENTER METER
MPX
IC105 LA3401
LP102
LP101
C240 100P
J102
COMPULINK-2
R117 10
P103
TO ENH-169-1 (FW103)
+15V
+5.6V
R OUT
GND
L OUT

Notes:

1. ━ indicates +B power supply.
2. ┅ indicates −B power supply.
3. ▨ indicates signal path.
4. ▭ shows DC voltage to the chassis with no signal input.
5. When replacing the parts in the shaded area (▨) and those marked with ⚠, be sure to use the designated parts to ensure safety. This is the standard circuit diagram.
6. The design and contents are subject to change without notice.

RX-304BK/RX-304LBK
RX-305TN/RX-305LTN

(2) Audio Section


SOURCE SELECT
SURROUND
EQ AMP
IC301 VC4580LD
IC321 TC9164N
IC331 VC4580L
IC332 VC4580L
IC361 TC9177P
IC362 VC4580L
MAIN VOLUME
PHONO
CD
PLAY TAPE1 REC
PLAY TAPE2 REC
J301 EMH00TV-405A
J302 EMH00TV-402A
J303 EMH00TV-405A
Lch
Rch
TO ENA-095-1 (P103)
TO ENH-169-6 (FW341)
TONE CONTROL
TREBLE
BASS
ENH-169-2
PRE DRIVER
IC701 NJM4560D
POWER AMP
IDLING ADJUST VOL
PROTECTOR
IC901 TA7317P
TO POWER TRANSFORMER
ENH-169-1
ENH-169-3
ENH-169-4
ENH-169-5
J901 HEAD PHONES
LEFT
RIGHT
SPK1
SPK2
SW901 SPK-1
SW902 SPK-2
RY901

Notes:

1. ——— indicates +B power supply.
2. ········ indicates −B power supply.
3. ▨ indicates signal path.
4. ▭ shows DC voltage to the chassis with no signal input.
5. When replacing the parts in the shaded area (▨) and those marked with ⚠, be sure to use the designated parts to ensure safety.
   This is the standard circuit diagram.
6. The design and contents are subject to change without notice.

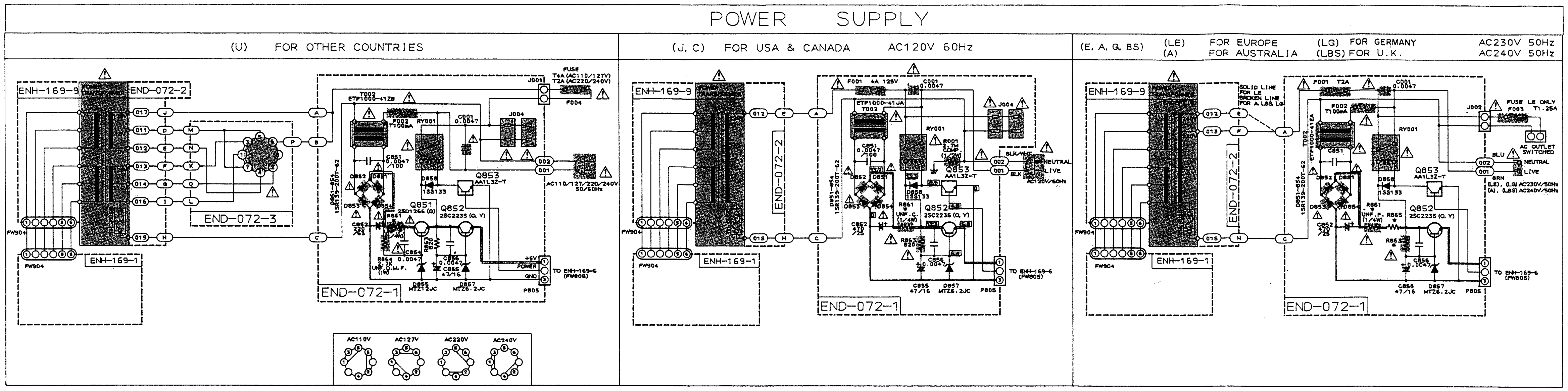
※ MARK

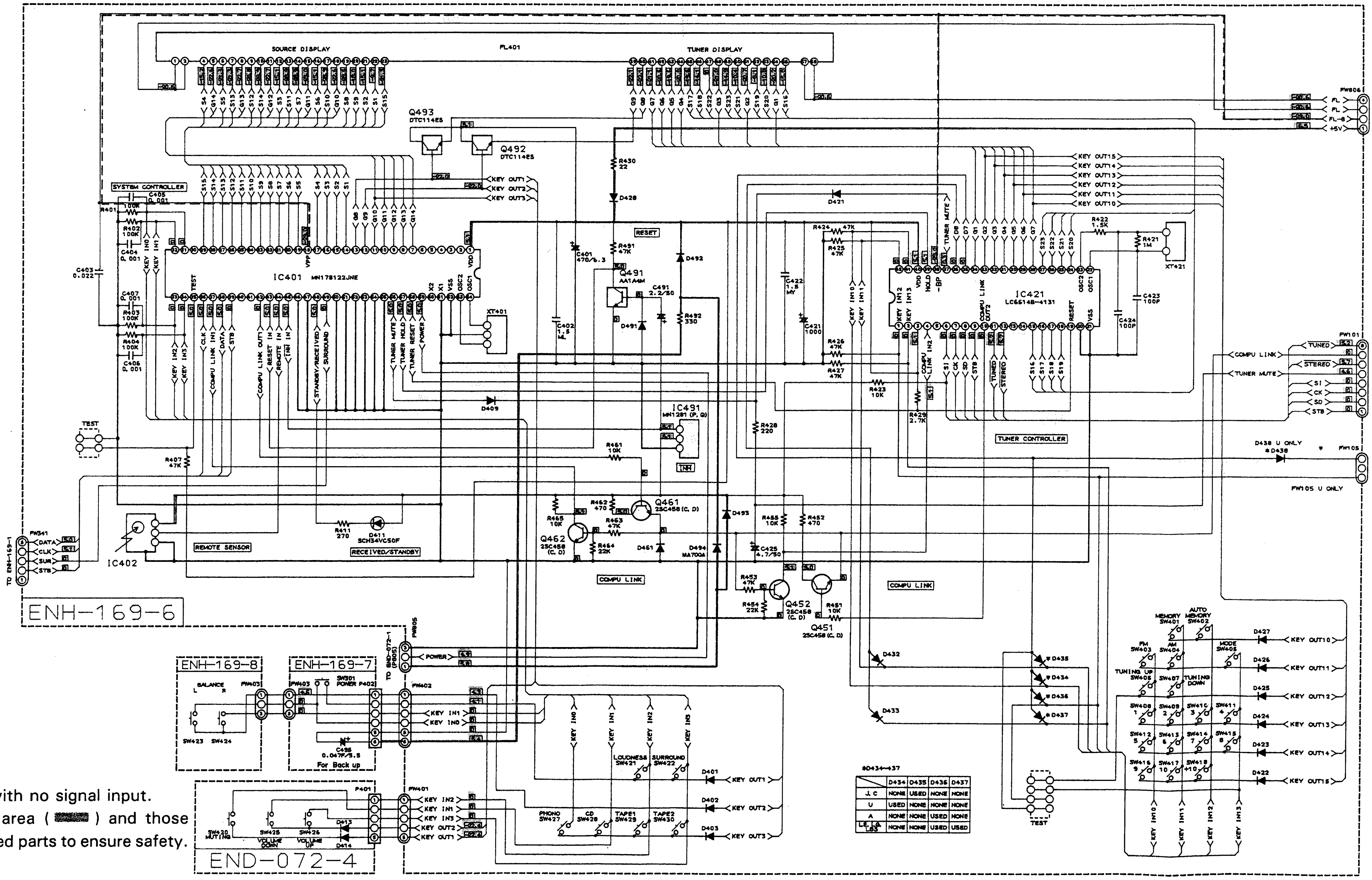
	J	C	U	LE	A	LBS	LG
C303,304	USED	NONE	NONE	NONE	NONE	NONE	NONE
C375,376	NONE	NONE	NONE	NONE	NONE	NONE	USED
C381-390	NONE	NONE	NONE	NONE	NONE	NONE	USED
C393,394	NONE	NONE	NONE	NONE	NONE	NONE	USED
C705,706	USED	USED	USED	USED	USED	USED	NONE
C755,756	0.022	0.047	0.047	0.047	0.047	0.047	0.047
C757,758	SHORT	USED	USED	USED	USED	USED	USED
C805	0.01	0.01	0.1 MY	0.1 MY	0.1 MY	0.1 MY	0.1 MY
C831,832	USED	NONE	NONE	USED	USED	USED	USED
C944	NONE	NONE	NONE	NONE	NONE	NONE	USED
C961-974	NONE	NONE	NONE	NONE	NONE	NONE	USED
C991	NONE	NONE	NONE	NONE	NONE	NONE	USED
D801-804	30D2FC	30D2FC	30D2FC	30D2FC	30D2FC	30D2FC	30DF2SFC
L961,962	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT	USED
R385-388	470	470	470	470	470	470	2.2K
R709,710	UNF.C.	UNF.C.	UNF.F.	UNF.F.	UNF.F.	UNF.F.	UNF.F.
R757,758	NONE	NONE	USED	USED	USED	USED	USED
R789-792	UNF.C.	UNF.C.	UNF.F.	UNF.F.	UNF.F.	UNF.F.	UNF.F.
R797-798	UNF.C.	UNF.C.	UNF.F.	UNF.F.	UNF.F.	UNF.F.	UNF.F.
R806	UNF.C.	UNF.C.	UNF.F.	UNF.F.	UNF.F.	UNF.F.	UNF.F.
R817	100	100	82	82	82	82	82
R819	27	27	47	47	47	47	47
R821,822	USED	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT
R925	100	100	160	160	160	160	160
R926	110	110	100	100	100	100	100
R961-964	NONE	NONE	NONE	NONE	NONE	NONE	USED
C719,720	47/50	47/50	47/63	47/50	47/50	47/50	47/50

	J	C	U	LE	A	LBS	LG
C801,802	5600/50	5600/50	5600/56	5600/50	5600/50	5600/50	5600/50
D891,892	NONE	NONE	USED	USED	USED	USED	USED

(No. 20215)

(3) System Control & Power Primary Section


POWER SUPPLY
(U) FOR OTHER COUNTRIES
(J, C) FOR USA & CANADA AC120V 60Hz
(E, A, G, BS) (LE) FOR EUROPE (LG) FOR GERMANY AC230V 50Hz
(A) FOR AUSTRALIA (LBS) FOR U.K. AC240V 50Hz
ENH-169-9
END-072-2
END-072-3
END-072-1
ENH-169-1
FW904
FUSE T4A (AC110/127V) T2A (AC220/240V)
F001 4A 125V
F001 T2A
F002 T100mA
F003 T1.25A
T002 ETP1000-41ZB
RY001
C001 0.0047
Q851 2SD1266 (Q)
Q852 2SC2235 (O, Y)
Q853 AA1L3Z-T
D858 1SS133
D857 MTZ6.2JC
C855 47/16
+5V
POWER
GND
P805
TO ENH-169-6 (FW805)
AC110/127/220/240V 50/60Hz
AC120V/60Hz
NEUTRAL
LIVE
AC OUTLET SWITCHED
FUSE LE ONLY
AC110V
AC127V
AC220V
AC240V


SOURCE DISPLAY
PL401
TUNER DISPLAY
Q493 DTC114ES
Q492 DTC114ES
SYSTEM CONTROLLER
IC401 MN178122JHE
XT401
IC491 MN1281 (P, Q)
Q491 AA1A4M
RESET
IC421 LC6514B-4131
XT421
TUNER CONTROLLER
REMOTE SENSOR
IC402
D411 SCH34VC50F
RECEIVED/STANDBY
Q461 2SC458 (C, D)
Q462 2SC458 (C, D)
Q452 2SC458 (C, D)
Q451 2SC458 (C, D)
COMPU LINK
TUNER MUTE
TUNED
STEREO
FW101
TO ENA-095-1
FW806
TO ENH-169-1
D438 U ONLY
FW105 U ONLY
FW541
TO ENH-169-1
ENH-169-6
ENH-169-8
ENH-169-7
END-072-4
BALANCE
SW301 POWER
C436 0.047/5.5 For Back up
VOLUME DOWN
VOLUME UP
MUTING
PHONO SW427
CD SW428
TAPE1 SW429
TAPE2 SW430
LOUDNESS SW421
SURROUND SW422
MEMORY SW401
AUTO MEMORY SW402
FM SW403
AM SW404
MODE SW405
TUNING UP SW406
TUNING DOWN SW407
TEST
KEY OUT1
KEY OUT2
KEY OUT3
KEY OUT10
KEY OUT11
KEY OUT12
KEY OUT13
KEY OUT14
KEY OUT15
KEY IN0
KEY IN1
KEY IN2
KEY IN3

#D434~437

	D434	D435	D436	D437
J, C	NONE	USED	NONE	NONE
U	USED	NONE	NONE	NONE
A	NONE	NONE	USED	NONE
LE, LG LBS	NONE	NONE	USED	USED

#MARK

	R861	R863	R865
J	10	820	SHORT
C	10	820	SHORT
U	3.3	820	SHORT
LE	27	820	SHORT
A	27	820	20
LBS	27	910	20
LG	22	820	SHORT

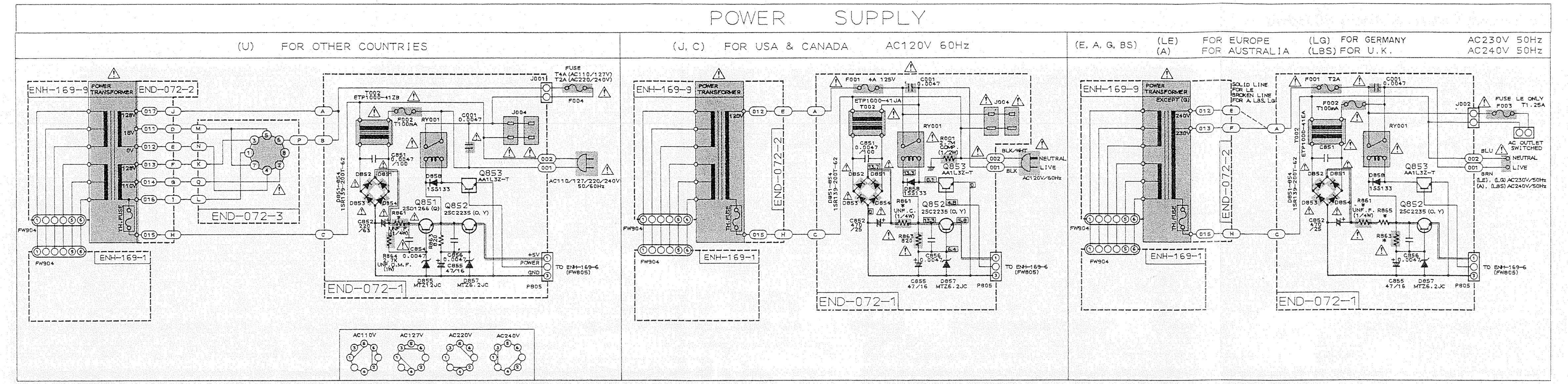
NOTE

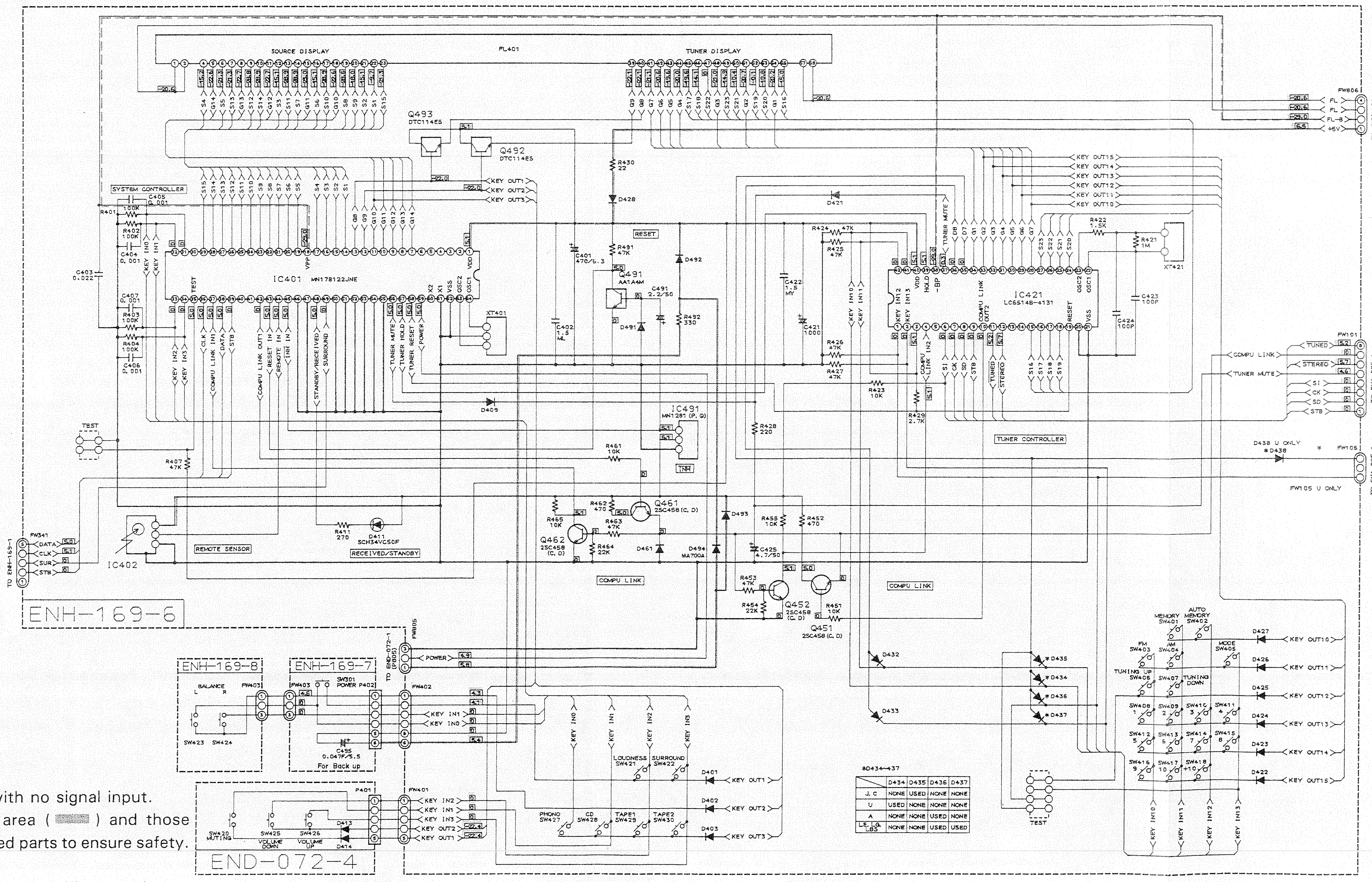
DIODE NON MARK
1SS133

Notes:

1. ——— indicates +B power supply.
2. -------- indicates −B power supply.
3. ▨ indicates signal path.
4. ▭ shows DC voltage to the chassis with no signal input.
5. When replacing the parts in the shaded area (▨) and those marked with ⚠, be sure to use the designated parts to ensure safety. This is the standard circuit diagram.
6. The design and contents are subject to change without notice.

(3) System Control & Power Primary Section


POWER SUPPLY
(U) FOR OTHER COUNTRIES
(J, C) FOR USA & CANADA AC120V 60Hz
(E, A, G, BS) (LE) FOR EUROPE (LG) FOR GERMANY AC230V 50Hz
(A) FOR AUSTRALIA (LBS) FOR U.K. AC240V 50Hz
ENH-169-9
POWER TRANSFORMER
END-072-2
END-072-3
END-072-1
ENH-169-1
FW904
T002 ETP1000-41Z9
F002 T100mA
RY001
C001 0.0047
J004
J001
FUSE T4A (AC110/127V) T2A (AC220/240V)
F004
AC110/127/220/240V 50/60Hz
Q851 2SD1266 (Q)
Q852 2SC2235 (O, Y)
Q853 AA1L3Z-T
D852 D851 D853 D854 D858 1SS133
C855 MTZ12JC
D857 MTZ6.2JC
TO ENH-169-6 (FW805)
P805
+5V POWER GND
AC110V AC127V AC220V AC240V
F001 4A 125V
NEUTRAL LIVE AC120V/60Hz
BLK/WHT BLK
F001 T2A
FUSE LE ONLY F003 T1.25A
AC OUTLET SWITCHED
BLU NEUTRAL
BRN LIVE
(LE), (LG) AC230V/50Hz (A), (LBS) AC240V/50Hz
SOLID LINE FOR LE
BROKEN LINE FOR A, LBS, LG


SOURCE DISPLAY
FL401
TUNER DISPLAY
Q493 DTC114ES
Q492 DTC114ES
SYSTEM CONTROLLER
IC401 MN178122JNE
IC421 LC6514B-4131
TUNER CONTROLLER
IC491 MN1281 (P, Q)
Q491 AA1A4M
Q461 2SC458 (C, D)
Q462 2SC458 (C, D)
Q452 2SC458 (C, D)
Q451 2SC458 (C, D)
IC402
REMOTE SENSOR
D411 SCH34VC50F
RECEIVED/STANDBY
COMPU LINK
RESET
XT401
XT421
TEST
ENH-169-6
ENH-169-8
ENH-169-7
END-072-4
FW606 TO ENH-169-1
FW101 TO ENA-095-1
FW105 TO ENA-095-1
FW105 U ONLY
D438 U ONLY
TO ENH-169-1
FW341
DATA CLK SUR STB
BALANCE SW423 SW424
SW301 POWER
C435 0.047F/5.5 For Back up
SW420 MUTING
SW425 VOLUME DOWN
SW426 VOLUME UP
LOUDNESS SW421
SURROUND SW422
PHONO SW427
CD SW428
TAPE1 SW429
TAPE2 SW430
AUTO MEMORY SW402
MEMORY SW401
FM SW403
AM SW404
MODE SW405
TUNING UP SW406
TUNING DOWN SW407
KEY OUT1 KEY OUT2 KEY OUT3
KEY IN1 KEY IN2 KEY IN3
TO END-072-1 (P805)

#D434~437

	D434	D435	D436	D437
J, C	NONE	USED	NONE	NONE
U	USED	NONE	NONE	NONE
A	NONE	NONE	USED	NONE
LE, LG, LBS	NONE	NONE	USED	USED

*MARK

	R861	R863	R865
J	10	820	SHORT
C	10	820	SHORT
U	3.3	820	SHORT
LE	27	820	SHORT
A	27	820	20
LBS	27	910	20
LG	22	820	SHORT

NOTE

DIODE NON MARK
1SS133

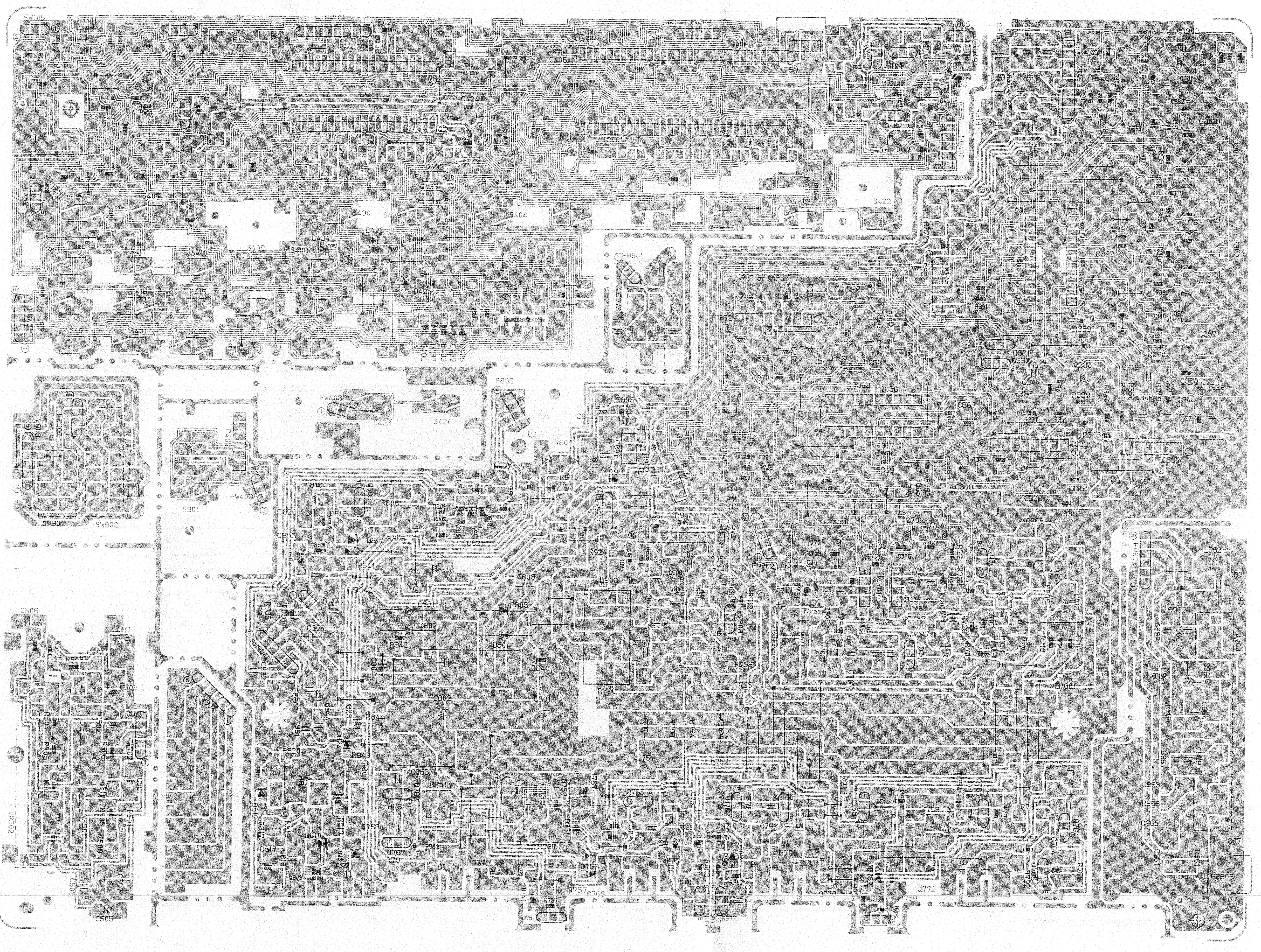
Notes:

1. ——— indicates +B power supply.
2. - - - - indicates −B power supply.
3. ▨ indicates signal path.
4. ☐ shows DC voltage to the chassis with no signal input.
5. When replacing the parts in the shaded area (▨) and those marked with ⚠, be sure to use the designated parts to ensure safety. This is the standard circuit diagram.
6. The design and contents are subject to change without notice.

RX-304BK/RX-304LBK
RX-305TN/RX-305LTN

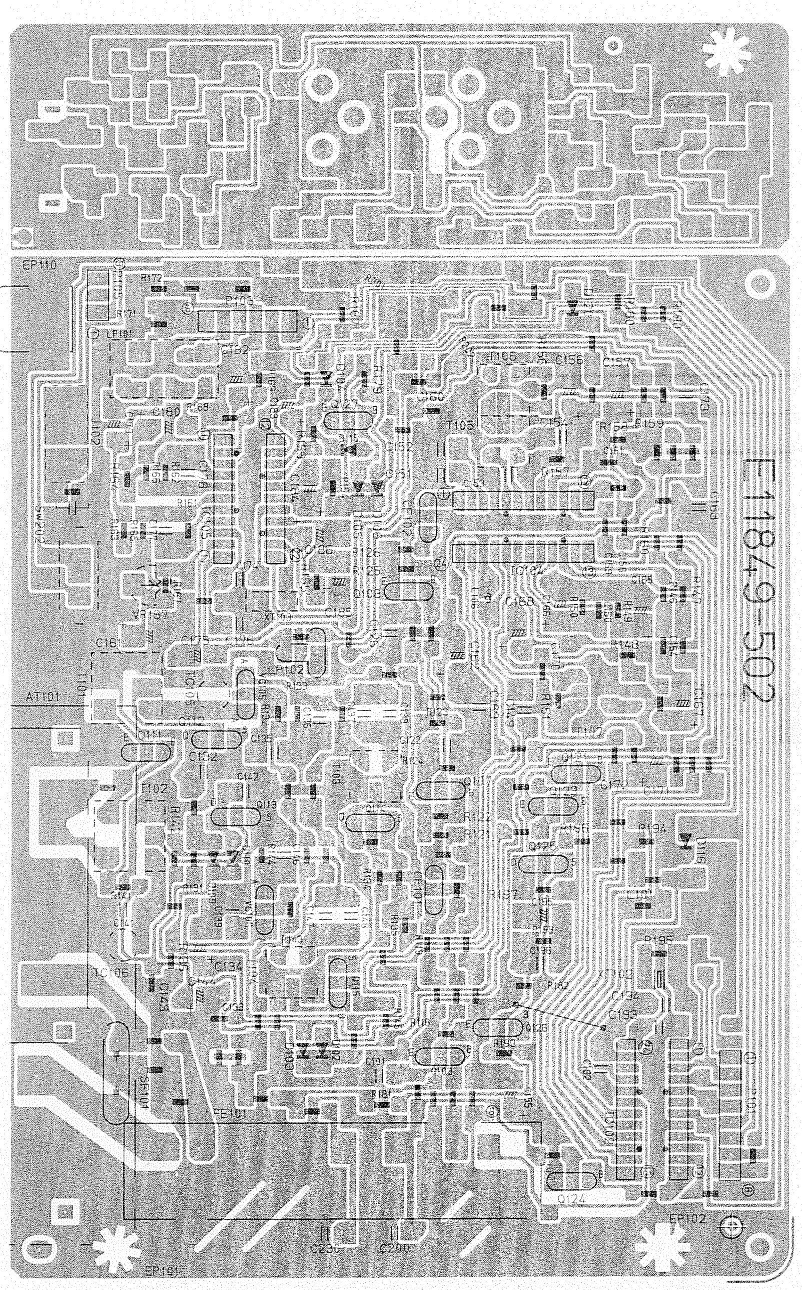
Printed Circuit Boards

(1) ENH-169 System Control & Audio PC Board

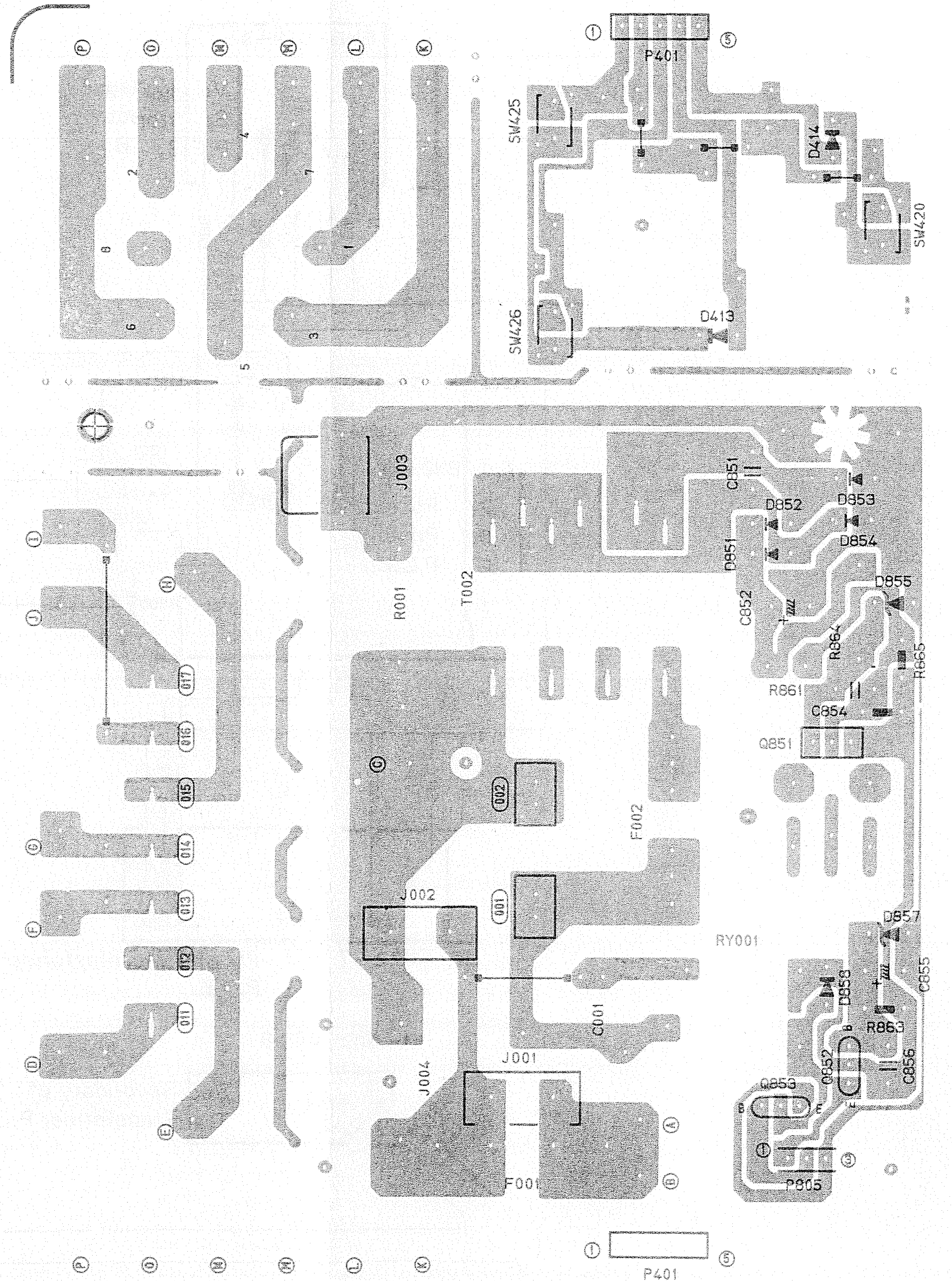

FW105
FW901
FW403
FW501
FW702
FW805
S423
S424
S301
SW901
SW902
IC331
IC361
IC701
RY901
EP801
EP803
Q771
Q772
VR502

(No. 20215)

(2) ENA-095 Tuner PC Board

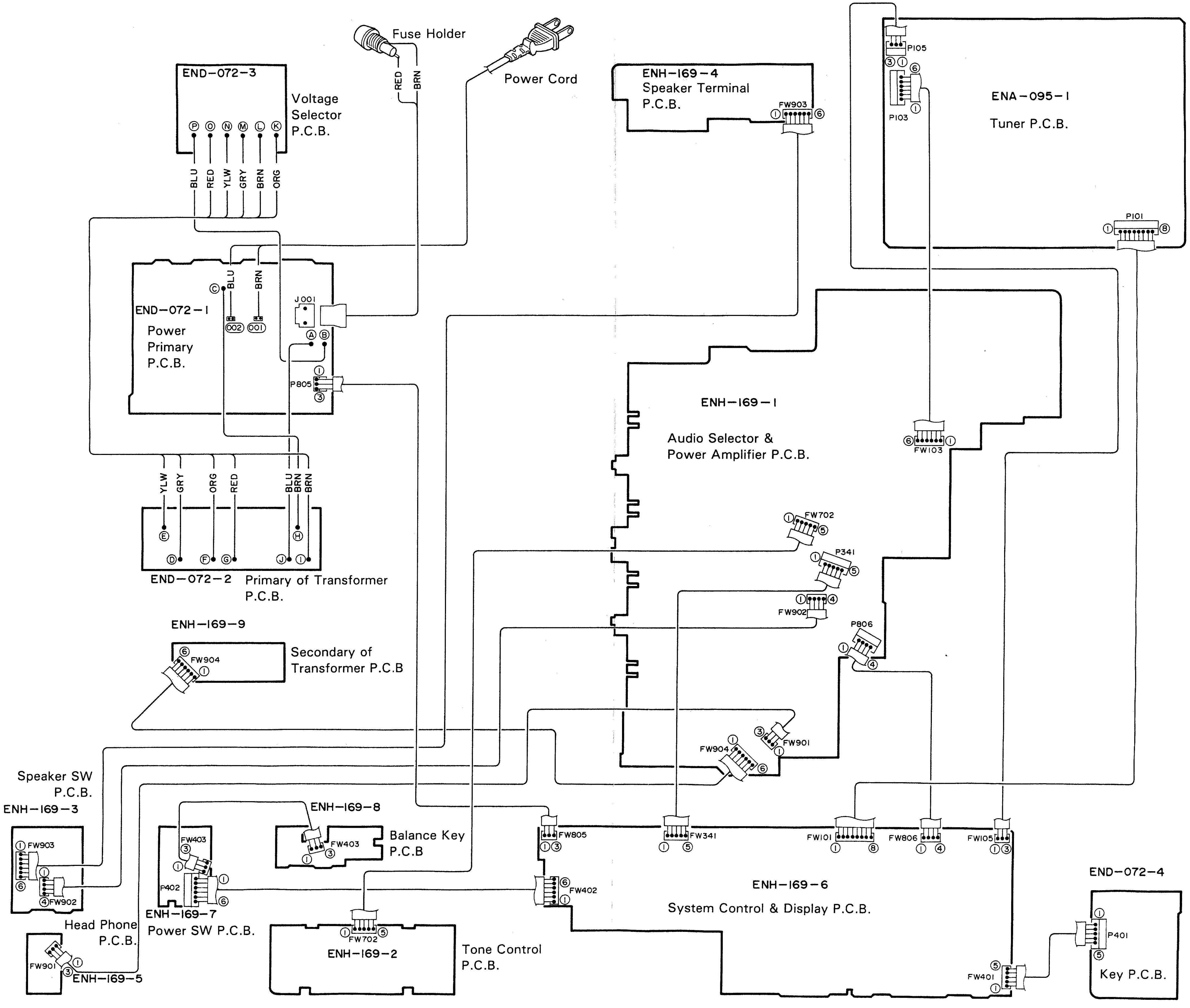

E11849 502
E11849 503
EP110
EP101
EP102
AT101
FE101
C230
C200
T105
T106

(3) END-072 Power Primary PC Board


P401
SW425
SW426
SW420
D414
D413
J003
T002
R001
C851
D852
D853
D854
D855
D851
C852
R864
R865
R861
C854
Q851
F002
J002
RY001
D857
D858
C855
R863
C856
C853
Q853
J001
C001
J004
F001
P805
A
B

RX-304BK/RX-304LBK
RX-305TN/RX-305LTN

Connection Diagram


Fuse Holder
RED
BRN
Power Cord
END-072-3
Voltage Selector P.C.B.
Ⓟ Ⓞ Ⓝ Ⓜ Ⓛ Ⓚ
BLU RED YLW GRY BRN ORG
END-072-1
Power Primary P.C.B.
Ⓒ
BLU
BRN
002 001
J001
Ⓐ Ⓑ
P805
① ③
YLW GRY ORG RED BLU BRN BRN
Ⓔ Ⓗ
Ⓓ Ⓕ Ⓖ Ⓙ Ⓘ
END-072-2 Primary of Transformer P.C.B.
ENH-169-9
Secondary of Transformer P.C.B
FW904 ⑥ ①
ENH-169-4
Speaker Terminal P.C.B.
FW903 ① ⑥
ENA-095-1
Tuner P.C.B.
P105 ③ ①
P103 ⑥ ①
P101 ① ⑧
ENH-169-1
Audio Selector & Power Amplifier P.C.B.
FW103 ⑥ ①
FW702 ① ⑤
P341 ① ⑤
FW902 ① ④
P806 ① ④
FW901 ③ ①
FW904 ① ⑥
Speaker SW P.C.B.
ENH-169-3
FW903 ① ⑥
FW902 ① ④
Head Phone P.C.B.
FW901 ① ③
ENH-169-5
ENH-169-7
Power SW P.C.B.
FW403 ③ ①
P402 ① ⑥
ENH-169-8
Balance Key P.C.B
FW403 ① ③
ENH-169-2
Tone Control P.C.B.
FW702 ① ⑤
FW805 ① ③
FW341 ① ⑤
FW101 ① ⑧
FW806 ① ④
FW105 ① ③
FW402 ⑥ ①
ENH-169-6
System Control & Display P.C.B.
FW401 ⑤ ①
END-072-4
P401 ① ⑤
Key P.C.B.

(No. 20215)

PARTS LIST

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Printed Circuit Board Ass'y and Parts List 2-9
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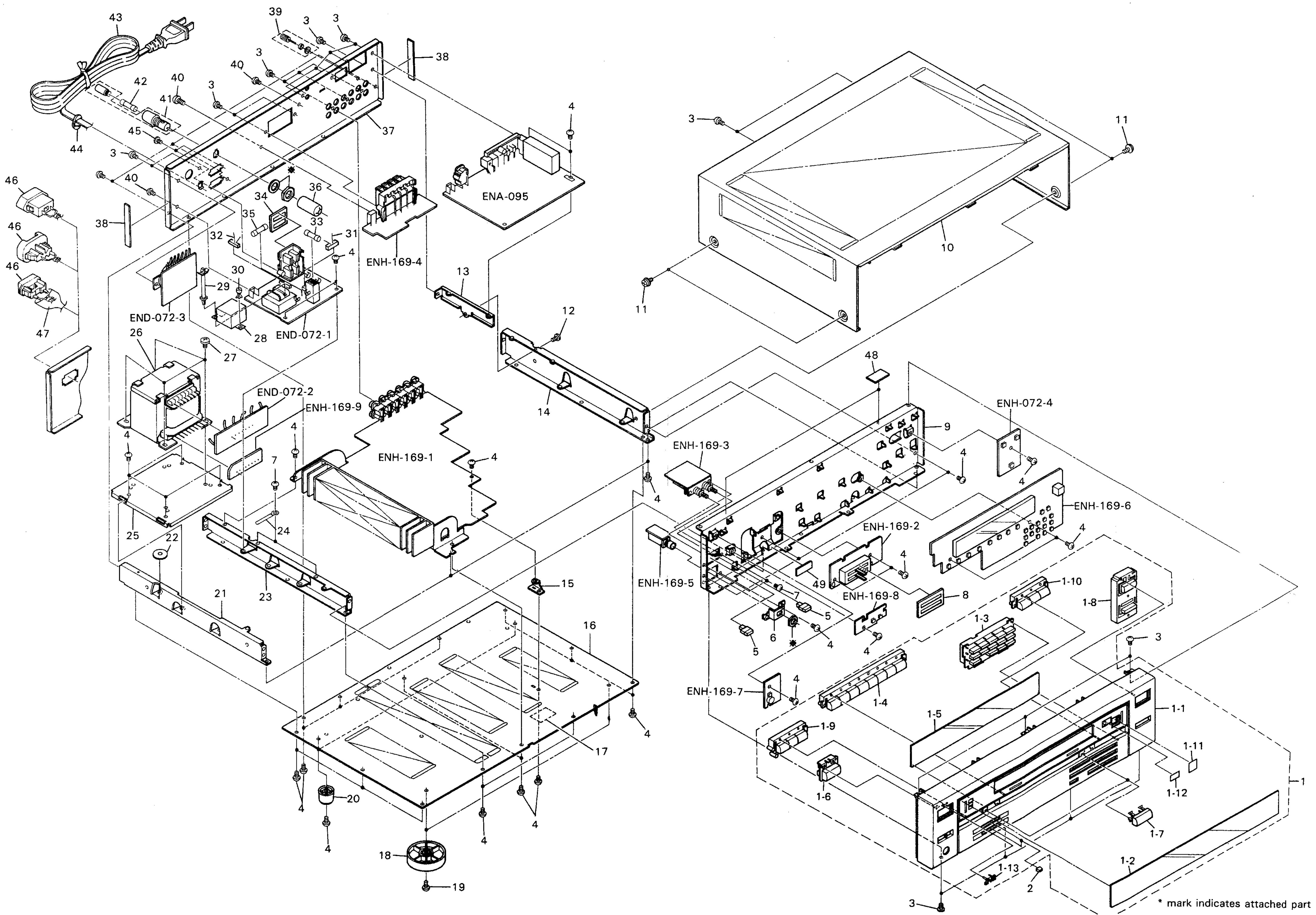
■ENA-095 ☐ Tuner PC Board Ass'y 2-14
■END-072 ☐ Power Primary PC Board Ass'y 2-17
Accessories List 2-19
Packing Materials and Part Numbers 2-21

General Exploded View and Parts List


43
39
3
38
42
40
41
37
45
44
46
47
ENA-095
ENH-169-4
36
34
35
33
32
31
30
29
28
END-072-3
END-072-1
26
27
END-072-2
ENH-169-9
ENH-169-1
25
22
24
23
21
13
12
14
15
16
17
18
19
20
10
11
48
9
ENH-072-4
ENH-169-3
ENH-169-6
ENH-169-2
ENH-169-5
ENH-169-8
49
8
7
6
5
*
ENH-169-7
1-1
1-2
1-3
1-4
1-5
1-6
1-7
1-8
1-9
1-10
1-11
1-12
1-13
1
2
4

* mark indicates attached part

■ Parts List (**RX-304BK / RX-304LBK**)

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFP-RX304BKU	Front Panel Ass'y	1		A , U
		EFP-RX304LBKE	Front Panel Ass'y	1		Except A , U
	1-1	E102364-007SM	Front Panel	1		A , U
		E102364-008SM	Front Panel	1		Except A , U
	1-2	E206962-005SM	Window Screen	1		A , U
		E206962-006SM	Window Screen	1		Except A , U
	1-3	E206964-003SS	Preset Button	1		
	1-4	E206965-002	Source Button	1		
	1-5	E306679-007SM	FL Screen	1		
	1-6	E307173-001SM	Power Button	1		
	1-7	E307229-002SS	Cap	2		
	1-8	E307230-002SS	Volume Button	1		
	1-9	E307231-003	Push Button	1	Left	
	1-10	E307232-002	Push Button	1	Right	
	1-11	E72436-006	Screen	1		
	1-12	E72437-006	Sheet	1		
	1-13	E72968-001	JVC Mark	1		
	2	E75290-001	Slide Cap	2		
	3	SBSG3008M	Screw	21		Except U
		SBSG3008M	Screw	23		U
	4	SBSG3008CC	Screw	42		
	5	E406334-002SS	Speaker Button	2		
	6	E75143-221	Headphone Bracket	1		
	7	SBST3006CC	Screw	4		
	8	E406554-001	Blind Sheet	1		
	9	E102372-001SM	Front Bracket	1		
	10	E25834-221	Metal Cover	1		
	11	E61660-004	Special Screw	4		
	12	SDSG3008CC	Screw	1		
	13	E307353-001SM	Bracket	1		
	14	E206957-001SM	Side Bracket	1	Right	
	15	E68587-009	Bracket	1		
	16	E102371-001SM	Bottom Base	1		
	17	E70115-002	Caution Label	1		Except U
	18	VJF4039-00B	Foot	2	Front	
	19	SBST3010Z	Screw	2	for Foot (Front)	
	20	E47227-036	Foot	2	Rear	
	21	E206956-001SM	Side Bracket	1	Left	
	22	**not use**	———			
	23	E206958-001SM	Center Bracket	1		
	24	E72018-004	Wire Clamp	2		
	25	E206959-001SM	Trans Bracket	1		
⚠	26	ETP1150-45FAJ	Power Transformer	1		U
⚠		ETP1150-45EAJ	Power Transformer	1		A , LE , LEF
⚠		ETP1150-45EAJBS	Power Transformer	1		LBS
⚠		ETP1150-45XAJ	Power Transformer	1		LG
	27	E65389-004	Special Screw	4		
	28	E406528-001	Protect Cover	1		Except A , U
	29	E306232-002	Fastener	1		Except A , U
	30	E48729-008	Plastic Rivet	1		Except A , U
	31	EWS282-001	Socket Wire	1		U
	32	EWS282-002	Socket Wire	1		A , LE , LG
		EWS282-002BS	Socket Wire	1		LBS
⚠	33	QMF51E2-R10J1	Fuse	1	F002	Except LBS
⚠		QMF51E2-R10J1BS	Fuse	1	F002	LBS
	34	**not use**	———			
⚠	35	QMF51E2-1R25J1	Fuse	1		Except U , LBS
⚠		QMF51E2-1R2J1BS	Fuse	1		LBS
	36	E69291-001	Fuse Cover	1		U , LE , LEF
	37	E206960-011SM	Rear Panel	1		U
		E206960-012SM	Rear Panel	1		A
		E206960-013SM	Rear Panel	1		LE , LEF
		E206960-014SM	Rear Panel	1		LG , LBS
	—	E306019-088	Rating Label	1	Made in Malaysia	U
		E306019-100	Rating Label	1		LG
	38	EXO085010R10S	Spacer	2		
	39	E70078-001	GND Terminal	1		
	40	SBST3006M	Screw	2		Except LG
		SBST3006M	Screw	3		LG
	41	QMG0301-003	Fuse Holder	1		U , LE , LEF
⚠	42	QMF51E2-1R25J1	Fuse	1		U , LE , LEF
⚠	43	QMP2560-244	Power Cord	1		A
⚠		QMP7520-200	Power Cord	1		U
⚠		QMP3900-200	Power Cord	1		LE , LEF
⚠		QMP9017-008BS	Power Cord	1		LBS
⚠		QMP39A0-200	Power Cord	1		LG
⚠	44	QHS3876-162	Cord Stopper	1		Except LBS
⚠		QHS3876-162BS	Cord Stopper	1		LBS
	45	SDSG3008M	Screw	2		U
⚠	46	EMC0233-001	AC Socket	1		A
⚠		EMC0236-001	AC Socket	1		LE , LEF , LG
⚠		EMC0237-001BS	AC Socket	1		LBS
	47	E406079-001	Cover	1	for AC Socket	LBS
	48	E306805-015	Spacer	2		
	49	EXO020010A03S14	Spacer	1		
	—	E61029-005	Number Label	1		Except A , LEF
	—	E70028-001	Approval Label	1		LE
	—	E74792-001	FTZ Label	1		LG

The Marks for Designated Areas

A················Australia
LE , LEF·······Continental Europe
LG···············Germany (with LW)
LBS·············the U.K. (with LW)
U·················Other Countires
No mark indicates all areas.

⚠ Safety Parts

■ Parts List (**RX-305TN / RX-305LTN**)

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
	1	EFP-RX305TNU	Front Panel Ass'y	1		J, C, A, U
		EFP-RX305LTNE	Front Panel Ass'y	1		LE, LG, LBS
	1-1	E102364-003SM	Front Panel	1		J, C, A, U
		E102364-004SM	Front Panel	1		LE, LG, LBS
	1-2	E206962-001SM	Window Screen	1		J, C, A, U
		E206962-002SM	Window Screen	1		LE, LG, LBS
	1-3	E206964-001SS	Preset Button	1		
	1-4	E206965-001	Source Button	1		
	1-5	E306679-007SM	FL Screen	1		
	1-6	E307173-002SM	Power Button	1		
	1-7	E307229-001SS	Cap	2		
	1-8	E307230-001SS	Volume Button	1		
	1-9	E307231-001	Push Button	1	Left	
	1-10	E307232-001	Push Button	1	Right	
	1-11	E72436-006	Screen	1		
	1-12	E72437-006	Sheet	1		
	1-13	E72968-001	JVC Mark	1		
	2	E75290-002	Slide Cap	2		
	3	SBSG3008M	Screw	21		Except U
		SBSG3008M	Screw	23		U
	4	SBSG3008CC	Screw	42		
	5	E406334-001SS	Speaker Button	2		
	6	E75143-221	Headphone Bracket	1		
	7	SBST3006CC	Screw	4		
	8	E406554-001	Blind Sheet	1		
	9	E102372-001SM	Front Bracket	1		
	10	E25834-223	Metal Cover	1		
	11	E61660-004	Special Screw	4		
	12	SDSG3008CC	Screw	1		
	13	E307353-001SM	Bracket	1		
	14	E206957-001SM	Side Bracket	1	Right	
	15	E68587-009	Bracket	1		
	16	E102371-001SM	Bottom Base	1		
	17	E70281-001	Caution Label	1		J
		E70115-002	Caution Label	1		Except J, U
	18	VJF4039-00A	Foot	2	Front	
	19	SBST3010Z	Screw	2	for Foot (Front)	
	20	E47227-036	Foot	2	Rear	
	21	E206956-001SM	Side Bracket	1	Left	
	22	E46891-032	Plate	1		J
	23	E206958-001SM	Center Bracket	1		
	24	E72018-004	Wire Clamp	2		
	25	E206959-001SM	Trans Bracket	1		
⚠	26	ETP1150-45JAJ	Power Transformer	1		J, C
⚠		ETP1150-45FAJ	Power Transformer	1		U
⚠		ETP1150-45EAJ	Power Transformer	1		A, LE
⚠		ETP1150-45EAJBS	Power Transformer	1		LBS
⚠		ETP1150-45XAJ	Power Transformer	1		LG
	27	E65389-004	Special Screw	4		
	28	E406528-001	Protect Cover	1		LE, LG, LBS
	29	E306232-002	Fastener	1		LE, LG, LBS
	30	E48729-008	Plastic Rivet	1		LE, LG, LBS
	31	EWS282-001	Socket Wire	1		U
	32	EWS282-002	Socket Wire	1		A, LE, LG
		EWS282-002BS	Socket Wire	1		LBS
⚠	33	QMF51E2-R10J1	Fuse	1	F002	A, U, LE, LG
⚠		QMF51E2-R10J1BS	Fuse	1	F002	LBS
	34	E69589-008	Spacer	1		J
⚠	35	QMF51U1-4R0S	Fuse	1		J, C
⚠		QMF51E2-1R25J1	Fuse	1		A, LE, LG

⚠	Item	Part Number	Part Name	Q'ty	Description	Areas
⚠		QMF51E2-1R2J1BS	Fuse	1		LBS
⚠	36	E69291-001	Fuse Cover	1		U, LE
	37	E206960-001SM	Rear Panel	1		J, C
		E206960-002SM	Rear Panel	1		U
		E206960-003SM	Rear Panel	1		A
		E206960-004SM	Rear Panel	1		LE
		E206960-005SM	Rear Panel	1		LG, LBS
	—	E306019-076	Rating Label	1	Made in Malaysia	U
		E306019-101	Rating Label	1		LG
	38	EXO085010R10S	Spacer	2		
	39	E70078-001	GND Terminal	1		
	40	SBST3006M	Screw	2		Except LG
		SBST3006M	Screw	3		LG
	41	QMG0301-003	Fuse Holder	1		U, LE
⚠	42	QMF51E2-1R25J1	Fuse	1		U, LE
⚠	43	QMP1480-200	Power Cord	1		J, C
⚠		QMP2560-244	Power Cord	1		A
⚠		QMP7520-200	Power Cord	1		U
⚠		QMP3900-200	Power Cord	1		LE
⚠		QMP9017-008BS	Power Cord	1		LBS
⚠		QMP39A0-200	Power Cord	1		LG
⚠	44	QHS3876-162	Cord Stopper	1		Except LBS
⚠		QHS3876-162BS	Cord Stopper	1		LBS
	45	SDSG3008M	Screw	2		J, C, U
⚠	46	EMC0233-001	AC Socket	1		A
⚠		EMC0236-001	AC Socket	1		LE, LG
⚠		EMC0237-001BS	AC Socket	1		LBS
	47	E406079-001	Cover	1	for AC Socket	LBS
	48	E306805-015	Spacer	2		
	49	EXO020010A03S14	Spacer	1		
	—	E61029-005	Number Label	1		Except A
	—	E67199-001	Caution Label	1		J
	—	E65507-001	Caution Label	1		C
	—	QZL1001-001	UL Label	1		J
	—	E45858-002	CSA Label	1		C
	—	E70028-001	Approval Label	1		LE
	—	E74792-080	FTZ Label	1		LG

The Marks for Designated Areas

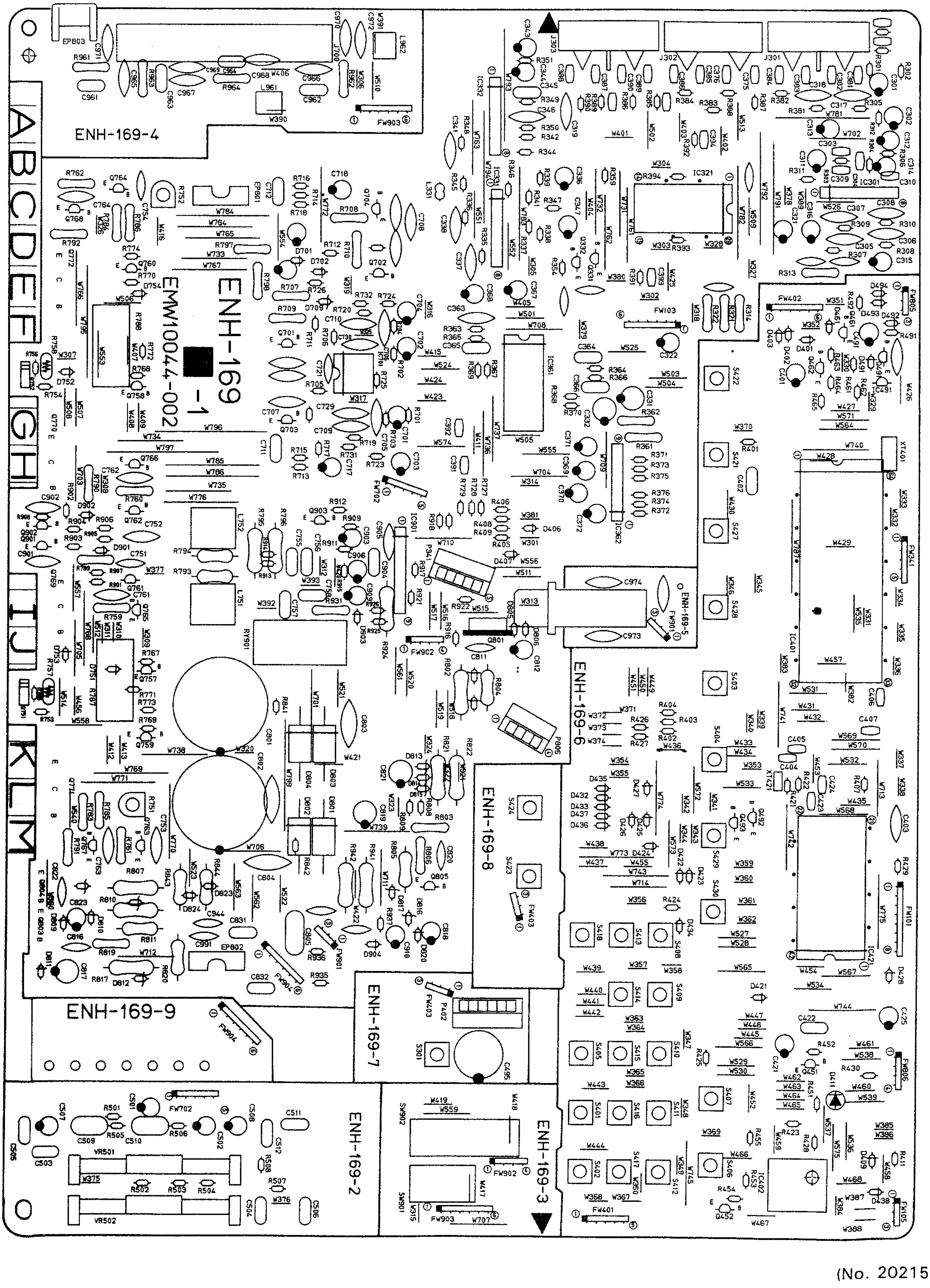
J……………………the U.S.A.
C……………………Canada
A……………………Australia
LE…………………Europe (with LW)
LG…………………Germany (with LW)
LBS………………the U.K. (with LW)
U……………………Other Countries
No mark indicates all areas.

⚠ Safety Parts

Printed Circuit Board Ass'y and Parts List

■ENH-169☐ System Control & Audio PC Board Ass'y

Note: ENH-169☐ varies according to the areas employed. See note (1) when placing an order.


ENH-169-1
EMW10044-002
ENH-169-2
ENH-169-3
ENH-169-4
ENH-169-5
ENH-169-6
ENH-169-7
ENH-169-8
ENH-169-9
A
B
C
D
E
F
G
H
I
J
K
L
M

Note (1)

■ RX-304BK / RX-304LBK

PC Board Ass'y	Designated Areas
ENH-169 C	Other Countries
ENH-169 D	Continental Europe
ENH-169 E	Australia
ENH-169 F	the U.K. (with LW)
ENH-169 G	Germany (with LW)

■ RX-305TN / RX-305LTN

PC Board Ass'y	Designated Areas
ENH-169 A	the U.S.A.
ENH-169 B	Canada
ENH-169 C	Other Countries
ENH-169 D	Continental Europe
ENH-169 E	Australia
ENH-169 F	the U.K. (with LW)
ENH-169 G	Germany (with LW)

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION		AREA
	Q331	AA1L4M	SILICON		
	Q332	2SD655(D,E)	SILICON	HITACHI	
	Q451	2SC458(C,D)	SILICON	HITACHI	
	Q452	2SC458(C,D)	SILICON	HITACHI	
	Q461	2SC458(C,D)	SILICON	HITACHI	
	Q462	2SC458(C,D)	SILICON	HITACHI	
	Q491	AA1A4M	SILICON		
	Q492	DTC114ES	SILICON	ROHM	
	Q493	DTC114ES	SILICON	ROHM	
	Q701	2SC2240(BL)	SILICON	TOSHIBA	
	Q702	2SC2240(BL)	SILICON	TOSHIBA	
	Q703	2SA970(BL)	SILICON	TOSHIBA	
	Q704	2SA970(BL)	SILICON	TOSHIBA	
	Q751	2SD636(Q,R)	SILICON	MATSUSHITA	
	Q752	2SD636(Q,R)	SILICON	MATSUSHITA	
	Q757	2SC945A(P,Q)	SILICON	NEC	
	Q758	2SC945A(P,Q)	SILICON	NEC	
	Q759	2SA733A(P,Q)	SILICON	NEC	
	Q760	2SA733A(P,Q)	SILICON	NEC	
	Q761	2SC2240(BL)	SILICON	TOSHIBA	
	Q762	2SC2240(BL)	SILICON	TOSHIBA	
	Q763	2SA970(BL)	SILICON	TOSHIBA	
	Q764	2SA970(BL)	SILICON	TOSHIBA	
	Q765	2SC2235(O,Y)	SILICON	TOSHIBA	
	Q766	2SC2235(O,Y)	SILICON	TOSHIBA	
	Q767	2SA965(O,Y)	SILICON	TOSHIBA	
	Q768	2SA965(O,Y)	SILICON	TOSHIBA	
	Q769	2SC3853LD(O,Y)	SILICON		
	Q770	2SC3853LD(O,Y)	SILICON		
	Q771	2SA1489LD(O,Y)	SILICON		
	Q772	2SA1489LD(O,Y)	SILICON		
	Q801	2SB1187(E,F)	SILICON	ROHM	
	Q803	2SD2061F(E,F)	SILICON	ROHM	
	Q804	2SD2061F(E,F)	SILICON	ROHM	
	Q805	2SA965(O,Y)	SILICON	TOSHIBA	
	Q901	2SC1775AV(E,F)	SILICON	HITACHI	
	Q902	2SC1775AV(E,F)	SILICON	HITACHI	
	Q903	2SA872AV(D,E)	SILICON	HITACHI	

I.C.s

⚠	ITEM	PART NUMBER	DESCRIPTION		AREA
	IC301	VC4580LD	I.C.	DAINICHI	
	IC321	TC9164N	I.C.	TOSHIBA	
	IC331	VC4580L	I.C.	DAINICHI	
	IC332	VC4580L	I.C.	DAINICHI	
	IC361	TC9177P	I.C.	TOSHIBA	
	IC362	VC4580L	I.C.	DAINICHI	
	IC401	MN178122JNE	I.C.	MATSUSHITA	
	IC402	SPS-420-1	I.C.	SANYO	
	IC421	LC6514B-4131	I.C.	SANYO	
	IC491	MN1281(P,Q)	I.C.	MATSUSHITA	
	IC701	NJM4560DD	I.C.	DAINICHI	
	IC901	TA7317P	I.C.	TOSHIBA	

⚠ SAFETY PARTS

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION		AREA
	D401	1SS133	SILICON	ROHM	
	D402	1SS133	SILICON	ROHM	
	D403	1SS133	SILICON	ROHM	
	D406	1SS133	SILICON	ROHM	
	D407	1SS133	SILICON	ROHM	
	D408	MTZ6.8JC	ZENER	ROHM	
	D409	1SS133	SILICON	ROHM	
	D411	SLH-34VC50F124	L.E.D.	ROHM	
	D421	1SS133	SILICON	ROHM	
	D422	1SS133	SILICON	ROHM	
	D423	1SS133	SILICON	ROHM	
	D424	1SS133	SILICON	ROHM	
	D425	1SS133	SILICON	ROHM	
	D426	1SS133	SILICON	ROHM	
	D427	1SS133	SILICON	ROHM	
	D428	1SS133	SILICON	ROHM	
	D432	1SS133	SILICON	ROHM	
	D433	1SS133	SILICON	ROHM	
	D434	1SS133	SILICON	ROHM	C
	D435	1SS133	SILICON	ROHM	A
	D435	1SS133	SILICON	ROHM	B
	D436	1SS133	SILICON	ROHM	D
	D436	1SS133	SILICON	ROHM	E
	D436	1SS133	SILICON	ROHM	F
	D436	1SS133	SILICON	ROHM	G
	D437	1SS133	SILICON	ROHM	D
	D437	1SS133	SILICON	ROHM	F
	D437	1SS133	SILICON	ROHM	G
	D438	1SS133	SILICON	ROHM	C
	D461	1SS133	SILICON	ROHM	
	D491	1SS133	SILICON	ROHM	
	D492	1SS133	SILICON	ROHM	
	D493	1SS133	SILICON	ROHM	
	D494	MA700A	ZENER	MATSUSHITA	
	D701	1SS133	SILICON	ROHM	
	D702	1SS133	SILICON	ROHM	
	D709	MTZ3.0JB	ZENER	ROHM	
	D751	1SS133	SILICON	ROHM	
	D752	1SS133	SILICON	ROHM	
	D753	1SS133	SILICON	ROHM	
	D754	1SS133	SILICON	ROHM	
	D801	30D2FC	SILICON	NIHONINTER	A
	D801	30D2FC	SILICON	NIHONINTER	B
	D801	30D2FC	SILICON	NIHONINTER	C
	D801	30D2FC	SILICON	NIHONINTER	D
	D801	30D2FC	SILICON	NIHONINTER	E
	D801	30D2FC	SILICON	NIHONINTER	F
	D801	30DF2SFC	SILICON	NIHONINTER	G
	D802	30D2FC	SILICON	NIHONINTER	A
	D802	30D2FC	SILICON	NIHONINTER	B
	D802	30D2FC	SILICON	NIHONINTER	C
	D802	30D2FC	SILICON	NIHONINTER	D
	D802	30D2FC	SILICON	NIHONINTER	E
	D802	30D2FC	SILICON	NIHONINTER	F
	D802	30DF2SFC	SILICON	NIHONINTER	G
	D803	30D2FC	SILICON	NIHONINTER	A
	D803	30D2FC	SILICON	NIHONINTER	B
	D803	30D2FC	SILICON	NIHONINTER	C
	D803	30D2FC	SILICON	NIHONINTER	D
	D803	30D2FC	SILICON	NIHONINTER	E
	D803	30D2FC	SILICON	NIHONINTER	F
	D803	30DF2SFC	SILICON	NIHONINTER	G
	D804	30D2FC	SILICON	NIHONINTER	A
	D804	30D2FC	SILICON	NIHONINTER	B
	D804	30D2FC	SILICON	NIHONINTER	C
	D804	30D2FC	SILICON	NIHONINTER	D
	D804	30D2FC	SILICON	NIHONINTER	E
	D804	30D2FC	SILICON	NIHONINTER	F
	D804	30DF2SFC	SILICON	NIHONINTER	G
	D805	1SS133	SILICON	ROHM	
	D806	MTZ16JC	ZENER	ROHM	
	D809	1SS133	SILICON	ROHM	
	D810	MTZ16JC	ZENER	ROHM	
	D811	1SS133	SILICON	ROHM	
	D812	MTZ7.5JC	ZENER	ROHM	
	D813	MTZ10JC	ZENER	ROHM	
	D814	MTZ8.2JC	ZENER	ROHM	
	D815	MTZ8.2JC	ZENER	ROHM	
	D816	MTZ13JC	ZENER	ROHM	
	D817	MTZ16JC	ZENER	ROHM	
	D820	1SS133	SILICON	ROHM	
	D823	1SS133	SILICON	ROHM	
	D824	1SS133	SILICON	ROHM	
	D891	MTZ8.2JC	ZENER	ROHM	C
	D891	MTZ8.2JC	ZENER	ROHM	D
	D891	MTZ8.2JC	ZENER	ROHM	E
	D891	MTZ8.2JC	ZENER	ROHM	F
	D891	MTZ8.2JC	ZENER	ROHM	G
	D892	MTZ8.2JC	ZENER	ROHM	C
	D892	MTZ8.2JC	ZENER	ROHM	D
	D892	MTZ8.2JC	ZENER	ROHM	E
	D892	MTZ8.2JC	ZENER	ROHM	F
	D892	MTZ8.2JC	ZENER	ROHM	G
	D901	1SS133	SILICON	ROHM	
	D902	1SS133	SILICON	ROHM	
	D903	1SS133	SILICON	ROHM	
	D904	1SS133	SILICON	ROHM	

⚠ SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C301	QETB1HM-475	4.7MF 50V ELECTRO	
	C302	QETB1HM-475	4.7MF 50V ELECTRO	
	C303	QCBB1HK-101	100PF 50V CERAMIC	A
	C304	QCBB1HK-101	100PF 50V CERAMIC	A
	C305	QCY21HK-182	1800PF 50V CERAMIC	
	C306	QCY21HK-182	1800PF 50V CERAMIC	
	C307	QCY21HK-682	6800PF 50V CERAMIC	
	C308	QCY21HK-682	6800PF 50V CERAMIC	
	C309	QCBB1HK-101	100PF 50V CERAMIC	
	C310	QCBB1HK-101	100PF 50V CERAMIC	
	C311	QETB1HM-475	4.7MF 50V ELECTRO	
	C312	QETB1HM-475	4.7MF 50V ELECTRO	
	C313	QETB1AM-107	100MF 10V ELECTRO	
	C314	QETB1AM-107	100MF 10V ELECTRO	
	C315	QETB1CM-476	47MF 16V ELECTRO	
	C316	QETB1CM-476	47MF 16V ELECTRO	
	C317	QCF21HP-223	0.022MF 50V CERAMIC	
	C318	QCF21HP-223	0.022MF 50V CERAMIC	
	C319	QCF21HP-223	0.022MF 50V CERAMIC	
	C321	QETB1EM-476	47MF 25V ELECTRO	
	C322	QETB1EM-476	47MF 25V ELECTRO	
	C329	QCS21HJ-681	680PF 50V CERAMIC	
	C331	QETB1EM-476	47MF 25V ELECTRO	
	C332	QETB1EM-476	47MF 25V ELECTRO	
	C336	QETB1CM-226	22MF 16V ELECTRO	
	C337	QCS21HJ-100	10PF 50V CERAMIC	
	C338	QCS21HJ-100	10PF 50V CERAMIC	
	C341	QCS21HJ-330	33PF 50V CERAMIC	
	C343	QETB1HM-475	4.7MF 50V ELECTRO	
	C344	QETB1HM-105	1MF 50V ELECTRO	
	C345	QFLB1HJ-392	3900PF 50V MYLAR	
	C346	QCS21HJ-100	10PF 50V CERAMIC	
	C347	QETB1EM-226	22MF 25V ELECTRO	
	C363	QCS21HJ-181	180PF 50V CERAMIC	
	C364	QCS21HJ-181	180PF 50V CERAMIC	
	C365	QFLB1HK-333	0.033MF 50V MYLAR	
	C366	QFLB1HK-333	0.033MF 50V MYLAR	
	C367	QETB1HM-475	4.7MF 50V ELECTRO	
	C368	QETB1HM-475	4.7MF 50V ELECTRO	
	C369	QETB1HM-105	1MF 50V ELECTRO	
	C370	QETB1HM-105	1MF 50V ELECTRO	
	C371	QETB1EM-106	10MF 25V ELECTRO	
	C372	QETB1EM-106	10MF 25V ELECTRO	
	C375	QCBB1HK-331	330PF 50V CERAMIC	G
	C376	QCBB1HK-331	330PF 50V CERAMIC	G
	C381	QCBB1HK-331	330PF 50V CERAMIC	G
	C382	QCBB1HK-331	330PF 50V CERAMIC	G
	C383	QCBB1HK-331	330PF 50V CERAMIC	G
	C384	QCBB1HK-331	330PF 50V CERAMIC	G
	C385	QCBB1HK-331	330PF 50V CERAMIC	G
	C386	QCBB1HK-331	330PF 50V CERAMIC	G
	C387	QCBB1HK-561	560PF 50V CERAMIC	G
	C388	QCBB1HK-561	560PF 50V CERAMIC	G
	C389	QCBB1HK-221	220PF 50V CERAMIC	G
	C390	QCBB1HK-221	220PF 50V CERAMIC	G
	C393	QCBB1HK-221	220PF 50V CERAMIC	G
	C394	QCBB1HK-221	220PF 50V CERAMIC	G
	C401	EET0602-477T	470MF ELECTRO	
	C402	QCZ0202-155	1.5MF 25V CERAMIC	
	C403	QCF21HP-223	0.022MF 50V CERAMIC	
	C404	QCGB1HK-102	1000PF 50V CERAMIC	
	C405	QCGB1HK-102	1000PF 50V CERAMIC	
	C406	QCGB1HK-102	1000PF 50V CERAMIC	
	C407	QCGB1HK-102	1000PF 50V CERAMIC	
	C421	EEZ0601-108	1000MF ELECTRO	
	C422	QCZ0202-155	1.5MF 25V CERAMIC	
	C423	QCBB1HK-101	100PF 50V CERAMIC	
	C424	QCBB1HK-101	100PF 50V CERAMIC	
	C425	QETB1HM-475	4.7MF 50V ELECTRO	
	C491	QETB1HM-225	2.2MF 50V ELECTRO	
	C495	EEZ0503-479	47000MF ELECTRO	
	C501	QEK51HM-105G	1MF 50V ELECTRO	
	C502	QEK51HM-105G	1MF 50V ELECTRO	
	C503	QFLB1HK-823	0.082MF 50V MYLAR	
	C504	QFLB1HK-823	0.082MF 50V MYLAR	
	C505	QFLB1HK-153	0.015MF 50V MYLAR	
	C506	QFLB1HK-153	0.015MF 50V MYLAR	
	C507	QEK51HM-105G	1MF 50V ELECTRO	
	C508	QEK51HM-105G	1MF 50V ELECTRO	
	C509	QFLB1HK-332	3300PF 50V MYLAR	
	C510	QFLB1HK-332	3300PF 50V MYLAR	
	C511	QFLB1HK-183	0.018MF 50V MYLAR	
	C512	QFLB1HK-183	0.018MF 50V MYLAR	
	C701	QETB1HM-106	10MF 50V ELECTRO	
	C702	QETB1HM-106	10MF 50V ELECTRO	
	C703	QETB1AM-107	100MF 10V ELECTRO	
	C704	QETB1AM-107	100MF 10V ELECTRO	
	C705	QCS21HJ-101	100PF 50V CERAMIC	A
	C705	QCS21HJ-101	100PF 50V CERAMIC	B
	C705	QCS21HJ-101	100PF 50V CERAMIC	C
	C705	QCS21HJ-101	100PF 50V CERAMIC	D
	C705	QCS21HJ-101	100PF 50V CERAMIC	E
	C705	QCS21HJ-101	100PF 50V CERAMIC	F
	C706	QCS21HJ-101	100PF 50V CERAMIC	A
	C706	QCS21HJ-101	100PF 50V CERAMIC	B

⚠ SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C706	QCS21HJ-101	100PF 50V CERAMIC	C
	C706	QCS21HJ-101	100PF 50V CERAMIC	D
	C706	QCS21HJ-101	100PF 50V CERAMIC	E
	C706	QCS21HJ-101	100PF 50V CERAMIC	F
	C707	QCS21HJ-270	27PF 50V CERAMIC	
	C708	QCS21HJ-270	27PF 50V CERAMIC	
	C709	QCS21HJ-270	27PF 50V CERAMIC	
	C710	QCS21HJ-270	27PF 50V CERAMIC	
	C711	QFLB1HK-103	0.01MF 50V MYLAR	
	C712	QFLB1HK-103	0.01MF 50V MYLAR	
	C717	QETB1HM-226	22MF 50V ELECTRO	
	C718	QETB1HM-226	22MF 50V ELECTRO	
	C719	QETB1HM-476	47MF 50V ELECTRO	A
	C719	QETB1HM-476	47MF 50V ELECTRO	B
	C719	QETB1JM-476	47MF 63V ELECTRO	C
	C719	QETB1HM-476	47MF 50V ELECTRO	D
	C719	QETB1HM-476	47MF 50V ELECTRO	E
	C719	QETB1HM-476	47MF 50V ELECTRO	F
	C719	QETB1HM-476	47MF 50V ELECTRO	G
	C720	QETB1HM-476	47MF 50V ELECTRO	A
	C720	QETB1HM-476	47MF 50V ELECTRO	B
	C720	QETB1JM-476	47MF 63V ELECTRO	C
	C720	QETB1HM-476	47MF 50V ELECTRO	D
	C720	QETB1HM-476	47MF 50V ELECTRO	E
	C720	QETB1HM-476	47MF 50V ELECTRO	F
	C720	QETB1HM-476	47MF 50V ELECTRO	G
	C721	QCF21HP-223	0.022MF 50V CERAMIC	
	C729	QCS21HJ-220	22PF 50V CERAMIC	
	C730	QCS21HJ-220	22PF 50V CERAMIC	
	C751	QCS22HJ-470A	47PF 500V CERAMIC	
	C752	QCS22HJ-470A	47PF 500V CERAMIC	
	C753	QCS22HJ-470A	47PF 500V CERAMIC	
	C754	QCS22HJ-470A	47PF 500V CERAMIC	
	C755	QFLB1HK-223	0.022MF 50V MYLAR	A
	C755	QFLB1HK-473	0.047MF 50V MYLAR	B
	C755	QFLB1HK-473	0.047MF 50V MYLAR	C
	C755	QFLB1HK-473	0.047MF 50V MYLAR	D
	C755	QFLB1HK-473	0.047MF 50V MYLAR	E
	C755	QFLB1HK-473	0.047MF 50V MYLAR	F
	C755	QFLB1HK-473	0.047MF 50V MYLAR	G
	C756	QFLB1HK-223	0.022MF 50V MYLAR	A
	C756	QFLB1HK-473	0.047MF 50V MYLAR	B
	C756	QFLB1HK-473	0.047MF 50V MYLAR	C
	C756	QFLB1HK-473	0.047MF 50V MYLAR	D
	C756	QFLB1HK-473	0.047MF 50V MYLAR	E
	C756	QFLB1HK-473	0.047MF 50V MYLAR	F
	C756	QFLB1HK-473	0.047MF 50V MYLAR	G
	C757	QFLB1HK-473	0.047MF 50V MYLAR	B
	C757	QFLB1HK-473	0.047MF 50V MYLAR	C
	C757	QFLB1HK-473	0.047MF 50V MYLAR	D
	C757	QFLB1HK-473	0.047MF 50V MYLAR	E
	C757	QFLB1HK-473	0.047MF 50V MYLAR	F
	C757	QFLB1HK-473	0.047MF 50V MYLAR	G
	C758	QFLB1HK-473	0.047MF 50V MYLAR	B
	C758	QFLB1HK-473	0.047MF 50V MYLAR	C
	C758	QFLB1HK-473	0.047MF 50V MYLAR	D
	C758	QFLB1HK-473	0.047MF 50V MYLAR	E
	C758	QFLB1HK-473	0.047MF 50V MYLAR	F
	C758	QFLB1HK-473	0.047MF 50V MYLAR	G
	C761	QCF21HP-473	0.047MF 50V CERAMIC	
	C762	QCF21HP-473	0.047MF 50V CERAMIC	
	C763	QCF21HP-473	0.047MF 50V CERAMIC	
	C764	QCF21HP-473	0.047MF 50V CERAMIC	
	C801	EEW5006-568E	5600MF ELECTRO	A
	C801	EEW5006-568E	5600MF ELECTRO	B
	C801	EEW5611-568E	5600MF ELECTRO	C
	C801	EEW5006-568E	5600MF ELECTRO	D
	C801	EEW5006-568E	5600MF ELECTRO	E
	C801	EEW5006-568E	5600MF ELECTRO	F
	C801	EEW5006-568E	5600MF ELECTRO	G
	C802	EEW5006-568E	5600MF ELECTRO	A
	C802	EEW5006-568E	5600MF ELECTRO	B
	C802	EEW5611-568E	5600MF ELECTRO	C
	C802	EEW5006-568E	5600MF ELECTRO	D
	C802	EEW5006-568E	5600MF ELECTRO	E
	C802	EEW5006-568E	5600MF ELECTRO	F
	C802	EEW5006-568E	5600MF ELECTRO	G
	C803	QCE22HP-103	0.01MF 500V CERAMIC	
	C804	QCE22HP-103	0.01MF 500V CERAMIC	
	C805	QCE22HP-103	0.01MF 500V CERAMIC	A
	C805	QCE22HP-103	0.01MF 500V CERAMIC	B
	C805	QFN82CK-104	0.1MF 160V MYLAR	C
	C805	QFN82CK-104	0.1MF 160V MYLAR	D
	C805	QFN82CK-104	0.1MF 160V MYLAR	E
	C805	QFN82CK-104	0.1MF 160V MYLAR	F
	C805	QFN82CK-104	0.1MF 160V MYLAR	G
	C811	QCF21HP-472	4700PF 50V CERAMIC	
	C812	QETB1EM-107	100MF 25V ELECTRO	
	C816	QCF21HP-472	4700PF 50V CERAMIC	
	C817	QETB1EM-107	100MF 25V ELECTRO	
	C818	QETB1HM-476	47MF 50V ELECTRO	
	C819	QETB1HM-107	100MF 50V ELECTRO	
	C820	QCF21HP-472	4700PF 50V CERAMIC	
	C821	QETB1EM-107	100MF 25V ELECTRO	
	C822	QCF21HP-472	4700PF 50V CERAMIC	

⚠ SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C823	QETB1EM-107	100MF 25V ELECTRO	
	C831	QFLB1HK-223	0.022MF 50V MYLAR	A
	C831	QFLB1HK-223	0.022MF 50V MYLAR	D
	C831	QFLB1HK-223	0.022MF 50V MYLAR	E
	C831	QFLB1HK-223	0.022MF 50V MYLAR	F
	C831	QFLB1HK-223	0.022MF 50V MYLAR	G
	C832	QFLB1HK-223	0.022MF 50V MYLAR	A
	C832	QFLB1HK-223	0.022MF 50V MYLAR	D
	C832	QFLB1HK-223	0.022MF 50V MYLAR	E
	C832	QFLB1HK-223	0.022MF 50V MYLAR	F
	C832	QFLB1HK-223	0.022MF 50V MYLAR	G
	C901	QCF21HP-223	0.022MF 50V CERAMIC	
	C902	QCF21HP-223	0.022MF 50V CERAMIC	
	C903	QETB1HM-226	22MF 50V ELECTRO	
	C904	QFLB1HK-223	0.022MF 50V MYLAR	
	C905	QCY21HK-102	1000PF 50V CERAMIC	
	C906	QETB1AM-476	47MF 10V ELECTRO	
	C909	QETB1CM-226	22MF 16V ELECTRO	
	C910	QETB1HM-225	2.2MF 50V ELECTRO	
	C944	QCF21HP-103	0.01MF 50V CERAMIC	G
	C961	QFLB1HK-473	0.047MF 50V MYLAR	G
	C962	QFLB1HK-473	0.047MF 50V MYLAR	G
	C963	QFLB1HK-473	0.047MF 50V MYLAR	G
	C964	QFLB1HK-473	0.047MF 50V MYLAR	G
	C965	QCS21HJ-101	100PF 50V CERAMIC	G
	C966	QCS21HJ-471	470PF 50V CERAMIC	G
	C967	QCS21HJ-101	100PF 50V CERAMIC	G
	C968	QCS21HJ-101	100PF 50V CERAMIC	G
	C969	QCS21HJ-101	100PF 50V CERAMIC	G
	C970	QCS21HJ-101	100PF 50V CERAMIC	G
	C971	QCS21HJ-101	100PF 50V CERAMIC	G
	C972	QCS21HJ-101	100PF 50V CERAMIC	G
	C973	QCS21HJ-221	220PF 50V CERAMIC	G
	C974	QCS21HJ-221	220PF 50V CERAMIC	G
	C991	QCF21HP-103	0.01MF 50V CERAMIC	G

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R301	QRD167J-222	2.2K 1/6W CARBON	
	R302	QRD167J-222	2.2K 1/6W CARBON	
	R303	QRD167J-473	47K 1/6W CARBON	
	R304	QRD167J-473	47K 1/6W CARBON	
	R305	QRD167J-621	620 1/6W CARBON	
	R306	QRD167J-621	620 1/6W CARBON	
	R307	QRD167J-393	39K 1/6W CARBON	
	R308	QRD167J-393	39K 1/6W CARBON	
	R309	QRD167J-474	470K 1/6W CARBON	
	R310	QRD167J-474	470K 1/6W CARBON	
	R311	QRD167J-104	100K 1/6W CARBON	
	R312	QRD167J-104	100K 1/6W CARBON	
⚠	R313	QRD14CJ-391S	390 1/4W UNF.CARBON	
⚠	R314	QRD14CJ-391S	390 1/4W UNF.CARBON	
⚠	R321	QRZ0077-470	47 1/4W FUSIBLE	
⚠	R322	QRZ0077-470	47 1/4W FUSIBLE	
	R335	QRD167J-273	27K 1/6W CARBON	
	R336	QRD167J-273	27K 1/6W CARBON	
	R337	QRD167J-273	27K 1/6W CARBON	
	R338	QRD167J-474	470K 1/6W CARBON	
	R339	QRD167J-273	27K 1/6W CARBON	
	R341	QRD167J-273	27K 1/6W CARBON	
	R342	QRD167J-334	330K 1/6W CARBON	
	R344	QRD167J-334	330K 1/6W CARBON	
	R345	QRD167J-273	27K 1/6W CARBON	
	R346	QRD167J-273	27K 1/6W CARBON	
	R347	QRD167J-273	27K 1/6W CARBON	
	R348	QRD167J-334	330K 1/6W CARBON	
	R349	QRD167J-682	6.8K 1/6W CARBON	
	R350	QRD167J-334	330K 1/6W CARBON	
	R351	QRD167J-332	3.3K 1/6W CARBON	
	R354	QRD167J-473	47K 1/6W CARBON	
⚠	R361	QRZ0077-680	68 1/4W FUSIBLE	
⚠	R362	QRZ0077-680	68 1/4W FUSIBLE	
	R363	QRD167J-105	1M 1/6W CARBON	
	R364	QRD167J-105	1M 1/6W CARBON	
	R365	QRD167J-563	56K 1/6W CARBON	
	R366	QRD167J-563	56K 1/6W CARBON	
	R367	QRD167J-563	56K 1/6W CARBON	
	R368	QRD167J-563	56K 1/6W CARBON	
	R369	QRD167J-104	100K 1/6W CARBON	
	R370	QRD167J-104	100K 1/6W CARBON	
	R371	QRD167J-103	10K 1/6W CARBON	
	R372	QRD167J-103	10K 1/6W CARBON	
	R373	QRD167J-184	180K 1/6W CARBON	
	R374	QRD167J-184	180K 1/6W CARBON	
	R375	QRD167J-105	1M 1/6W CARBON	
	R376	QRD167J-105	1M 1/6W CARBON	
	R381	QRD167J-471	470 1/6W CARBON	
	R382	QRD167J-471	470 1/6W CARBON	

⚠ SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R383	QRD167J-471	470 1/6W CARBON	
	R384	QRD167J-471	470 1/6W CARBON	
	R385	QRD167J-471	470 1/6W CARBON	A
	R385	QRD167J-471	470 1/6W CARBON	B
	R385	QRD167J-471	470 1/6W CARBON	C
	R385	QRD167J-471	470 1/6W CARBON	D
	R385	QRD167J-471	470 1/6W CARBON	E
	R385	QRD167J-471	470 1/6W CARBON	F
	R385	QRD167J-222	2.2K 1/6W CARBON	G
	R386	QRD167J-471	470 1/6W CARBON	A
	R386	QRD167J-471	470 1/6W CARBON	B
	R386	QRD167J-471	470 1/6W CARBON	C
	R386	QRD167J-471	470 1/6W CARBON	D
	R386	QRD167J-471	470 1/6W CARBON	E
	R386	QRD167J-471	470 1/6W CARBON	F
	R386	QRD167J-222	2.2K 1/6W CARBON	G
	R387	QRD167J-471	470 1/6W CARBON	A
	R387	QRD167J-471	470 1/6W CARBON	B
	R387	QRD167J-471	470 1/6W CARBON	C
	R387	QRD167J-471	470 1/6W CARBON	D
	R387	QRD167J-471	470 1/6W CARBON	E
	R387	QRD167J-471	470 1/6W CARBON	F
	R387	QRD167J-222	2.2K 1/6W CARBON	G
	R388	QRD167J-471	470 1/6W CARBON	A
	R388	QRD167J-471	470 1/6W CARBON	B
	R388	QRD167J-471	470 1/6W CARBON	C
	R388	QRD167J-471	470 1/6W CARBON	D
	R388	QRD167J-471	470 1/6W CARBON	E
	R388	QRD167J-471	470 1/6W CARBON	F
	R388	QRD167J-222	2.2K 1/6W CARBON	G
	R389	QRD167J-471	470 1/6W CARBON	
	R390	QRD167J-471	470 1/6W CARBON	
	R391	QRD167J-105	1M 1/6W CARBON	
	R392	QRD167J-105	1M 1/6W CARBON	
	R393	QRD167J-103	10K 1/6W CARBON	
	R394	QRD167J-103	10K 1/6W CARBON	
	R401	QRD167J-104	100K 1/6W CARBON	
	R402	QRD167J-104	100K 1/6W CARBON	
	R403	QRD167J-104	100K 1/6W CARBON	
	R404	QRD167J-104	100K 1/6W CARBON	
	R405	QRD167J-512	5.1K 1/6W CARBON	
	R406	QRD167J-512	5.1K 1/6W CARBON	
	R407	QRD167J-473	47K 1/6W CARBON	
	R408	QRD167J-103	10K 1/6W CARBON	
	R409	QRD167J-103	10K 1/6W CARBON	
	R411	QRD167J-271	270 1/6W CARBON	
	R421	QRD167J-105	1M 1/6W CARBON	
	R422	QRD167J-152	1.5K 1/6W CARBON	
	R423	QRD167J-103	10K 1/6W CARBON	
	R424	QRD167J-473	47K 1/6W CARBON	
	R425	QRD167J-473	47K 1/6W CARBON	
	R426	QRD167J-473	47K 1/6W CARBON	
	R427	QRD167J-473	47K 1/6W CARBON	
	R428	QRD167J-221	220 1/6W CARBON	
	R429	QRD167J-272	2.7K 1/6W CARBON	
	R430	QRD167J-220	22 1/6W CARBON	
	R451	QRD167J-103	10K 1/6W CARBON	
	R452	QRD167J-471	470 1/6W CARBON	
	R453	QRD167J-473	47K 1/6W CARBON	
	R454	QRD167J-223	22K 1/6W CARBON	
	R455	QRD167J-103	10K 1/6W CARBON	
	R461	QRD167J-103	10K 1/6W CARBON	
	R462	QRD167J-471	470 1/6W CARBON	
	R463	QRD167J-473	47K 1/6W CARBON	
	R464	QRD167J-223	22K 1/6W CARBON	
	R465	QRD167J-103	10K 1/6W CARBON	
	R491	QRD167J-473	47K 1/6W CARBON	
	R492	QRD167J-331	330 1/6W CARBON	
	R501	QRD167J-203	20K 1/6W CARBON	
	R502	QRD167J-203	20K 1/6W CARBON	
	R503	QRD167J-362	3.6K 1/6W CARBON	
	R504	QRD167J-362	3.6K 1/6W CARBON	
	R505	QRD167J-472	4.7K 1/6W CARBON	
	R506	QRD167J-472	4.7K 1/6W CARBON	
	R507	QRD167J-821	820 1/6W CARBON	
	R508	QRD167J-821	820 1/6W CARBON	
	R701	QRD167J-222	2.2K 1/6W CARBON	
	R702	QRD167J-222	2.2K 1/6W CARBON	
	R703	QRD167J-104	100K 1/6W CARBON	
	R704	QRD167J-104	100K 1/6W CARBON	
	R705	QRD167J-472	4.7K 1/6W CARBON	
	R706	QRD167J-472	4.7K 1/6W CARBON	
⚠	R707	QRD14CJ-820S	82 1/4W UNF.CARBON	
⚠	R708	QRD14CJ-820S	82 1/4W UNF.CARBON	
⚠	R709	QRD14CJ-820S	82 1/4W UNF.CARBON	A
⚠	R709	QRD14CJ-820S	82 1/4W UNF.CARBON	B
⚠	R709	QRZ0077-820	82 1/4W FUSIBLE	C
⚠	R709	QRZ0077-820	82 1/4W FUSIBLE	D
⚠	R709	QRZ0077-820	82 1/4W FUSIBLE	E
⚠	R709	QRZ0077-820	82 1/4W FUSIBLE	F

⚠ SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
⚠	R709	QRZ0077-820	82 1/4W FUSIBLE	G
⚠	R710	QRD14CJ-820S	82 1/4W UNF.CARBON	A
⚠	R710	QRD14CJ-820S	82 1/4W UNF.CARBON	B
⚠	R710	QRZ0077-820	82 1/4W FUSIBLE	C
⚠	R710	QRZ0077-820	82 1/4W FUSIBLE	D
⚠	R710	QRZ0077-820	82 1/4W FUSIBLE	E
⚠	R710	QRZ0077-820	82 1/4W FUSIBLE	F
⚠	R710	QRZ0077-820	82 1/4W FUSIBLE	G
	R711	QRD167J-470	47 1/6W CARBON	
	R712	QRD167J-470	47 1/6W CARBON	
	R713	QRD167J-153	15K 1/6W CARBON	
	R714	QRD167J-153	15K 1/6W CARBON	
	R715	QRD167J-153	15K 1/6W CARBON	
	R716	QRD167J-153	15K 1/6W CARBON	
	R717	QRD167J-332	3.3K 1/6W CARBON	
	R718	QRD167J-332	3.3K 1/6W CARBON	
	R719	QRD167J-133	13K 1/6W CARBON	
	R720	QRD167J-133	13K 1/6W CARBON	
	R723	QRD167J-911	910 1/6W CARBON	
	R724	QRD167J-911	910 1/6W CARBON	
	R725	QRD167J-202	2K 1/6W CARBON	
	R726	QRD167J-223	22K 1/6W CARBON	
	R727	QRD167J-222	2.2K 1/6W CARBON	
	R728	QRD167J-222	2.2K 1/6W CARBON	
	R729	QRD167J-102	1K 1/6W CARBON	
	R731	QRD167J-823	82K 1/6W CARBON	
	R732	QRD167J-823	82K 1/6W CARBON	
	R751	QVPA601-501A	500 VARIABLE	
	R752	QVPA601-501A	500 VARIABLE	
	R753	QRD167J-152	1.5K 1/6W CARBON	
	R754	QRD167J-152	1.5K 1/6W CARBON	
	R755	QRD167J-391	390 1/6W CARBON	
	R756	QRD167J-391	390 1/6W CARBON	
	R757	SDT250	NEGATIVE THE	C
	R757	SDT250	NEGATIVE THE	D
	R757	SDT250	NEGATIVE THE	E
	R757	SDT250	NEGATIVE THE	F
	R757	SDT250	NEGATIVE THE	G
	R758	SDT250	NEGATIVE THE	C
	R758	SDT250	NEGATIVE THE	D
	R758	SDT250	NEGATIVE THE	E
	R758	SDT250	NEGATIVE THE	F
	R758	SDT250	NEGATIVE THE	G
⚠	R759	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R760	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R761	QRD14CJ-100S	10 1/4W UNF.CARBON	
⚠	R762	QRD14CJ-100S	10 1/4W UNF.CARBON	
	R767	QRD167J-820	82 1/6W CARBON	
	R768	QRD167J-820	82 1/6W CARBON	
	R769	QRD167J-820	82 1/6W CARBON	
	R770	QRD167J-820	82 1/6W CARBON	
	R771	QRD167J-151	150 1/6W CARBON	
	R772	QRD167J-151	150 1/6W CARBON	
	R773	QRD167J-151	150 1/6W CARBON	
	R774	QRD167J-151	150 1/6W CARBON	
⚠	R783	QRD14CJ-272S	2.7K 1/4W UNF.CARBON	
⚠	R784	QRD14CJ-272S	2.7K 1/4W UNF.CARBON	
⚠	R785	QRD14CJ-271S	270 1/4W UNF.CARBON	
⚠	R786	QRD14CJ-271S	270 1/4W UNF.CARBON	
⚠	R787	ERF032K-R22	0.22 3W CEMENT	
⚠	R788	ERF032K-R22	0.22 3W CEMENT	
⚠	R789	QRD14CJ-100S	10 1/4W UNF.CARBON	A
⚠	R789	QRD14CJ-100S	10 1/4W UNF.CARBON	B
⚠	R789	QRZ0077-100	10 1/4W FUSIBLE	C
⚠	R789	QRZ0077-100	10 1/4W FUSIBLE	D
⚠	R789	QRZ0077-100	10 1/4W FUSIBLE	E
⚠	R789	QRZ0077-100	10 1/4W FUSIBLE	F
⚠	R789	QRZ0077-100	10 1/4W FUSIBLE	G
⚠	R790	QRD14CJ-100S	10 1/4W UNF.CARBON	A
⚠	R790	QRD14CJ-100S	10 1/4W UNF.CARBON	B
⚠	R790	QRZ0077-100	10 1/4W FUSIBLE	C
⚠	R790	QRZ0077-100	10 1/4W FUSIBLE	D
⚠	R790	QRZ0077-100	10 1/4W FUSIBLE	E
⚠	R790	QRZ0077-100	10 1/4W FUSIBLE	F
⚠	R790	QRZ0077-100	10 1/4W FUSIBLE	G
⚠	R791	QRD14CJ-100S	10 1/4W UNF.CARBON	A
⚠	R791	QRD14CJ-100S	10 1/4W UNF.CARBON	B
⚠	R791	QRZ0077-100	10 1/4W FUSIBLE	C
⚠	R791	QRZ0077-100	10 1/4W FUSIBLE	D
⚠	R791	QRZ0077-100	10 1/4W FUSIBLE	E
⚠	R791	QRZ0077-100	10 1/4W FUSIBLE	F
⚠	R791	QRZ0077-100	10 1/4W FUSIBLE	G
⚠	R792	QRD14CJ-100S	10 1/4W UNF.CARBON	A
⚠	R792	QRD14CJ-100S	10 1/4W UNF.CARBON	B
⚠	R792	QRZ0077-100	10 1/4W FUSIBLE	C
⚠	R792	QRZ0077-100	10 1/4W FUSIBLE	D
⚠	R792	QRZ0077-100	10 1/4W FUSIBLE	E
⚠	R792	QRZ0077-100	10 1/4W FUSIBLE	F
⚠	R792	QRZ0077-100	10 1/4W FUSIBLE	G
⚠	R793	QRD125J-330	33 1/2W UNF.CARBON	
⚠	R794	QRD125J-330	33 1/2W UNF.CARBON	
⚠	R795	QRG022J-100A	10 2W O.M.FILM	
⚠	R796	QRG022J-100A	10 2W O.M.FILM	
⚠	R797	QRD14CJ-330S	33 1/4W UNF.CARBON	A
⚠	R797	QRD14CJ-330S	33 1/4W UNF.CARBON	B

⚠ SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
⚠	R797	QRZ0077-330	33 1/4W FUSIBLE	C
⚠	R797	QRZ0077-330	33 1/4W FUSIBLE	D
⚠	R797	QRZ0077-330	33 1/4W FUSIBLE	E
⚠	R797	QRZ0077-330	33 1/4W FUSIBLE	F
⚠	R797	QRZ0077-330	33 1/4W FUSIBLE	G
⚠	R798	QRD14CJ-330S	33 1/4W UNF.CARBON	A
⚠	R798	QRD14CJ-330S	33 1/4W UNF.CARBON	B
⚠	R798	QRZ0077-330	33 1/4W FUSIBLE	C
⚠	R798	QRZ0077-330	33 1/4W FUSIBLE	D
⚠	R798	QRZ0077-330	33 1/4W FUSIBLE	E
⚠	R798	QRZ0077-330	33 1/4W FUSIBLE	F
⚠	R798	QRZ0077-330	33 1/4W FUSIBLE	G
⚠	R802	QRG022J-121A	120 2W O.M.FILM	
⚠	R803	QRZ0077-220	22 1/4W FUSIBLE	
⚠	R804	QRD125J-562	5.6K 1/2W UNF.CARBON	
⚠	R805	QRD125J-272	2.7K 1/2W UNF.CARBON	
⚠	R806	QRD14CJ-121S	120 1/4W UNF.CARBON	A
⚠	R806	QRD14CJ-121S	120 1/4W UNF.CARBON	B
⚠	R806	QRZ0077-121	120 1/4W FUSIBLE	C
⚠	R806	QRZ0077-121	120 1/4W FUSIBLE	D
⚠	R806	QRZ0077-121	120 1/4W FUSIBLE	E
⚠	R806	QRZ0077-121	120 1/4W FUSIBLE	F
⚠	R806	QRZ0077-121	120 1/4W FUSIBLE	G
⚠	R807	QRG022J-470A	47 2W O.M.FILM	
	R808	QRD167J-220	22 1/6W CARBON	
	R809	QRD167J-220	22 1/6W CARBON	
⚠	R810	QRG022J-390A	39 2W O.M.FILM	
⚠	R811	QRD125J-562	5.6K 1/2W UNF.CARBON	
⚠	R817	QRG022J-101A	100 2W O.M.FILM	A
⚠	R817	QRG022J-101A	100 2W O.M.FILM	B
⚠	R817	QRG022J-820A	82 2W O.M.FILM	C
⚠	R817	QRG022J-820A	82 2W O.M.FILM	D
⚠	R817	QRG022J-820A	82 2W O.M.FILM	E
⚠	R817	QRG022J-820A	82 2W O.M.FILM	F
⚠	R817	QRG022J-820A	82 2W O.M.FILM	G
⚠	R819	QRZ0077-270	27 1/4W FUSIBLE	A
⚠	R819	QRZ0077-270	27 1/4W FUSIBLE	B
⚠	R819	QRZ0077-470	47 1/4W FUSIBLE	C
⚠	R819	QRZ0077-470	47 1/4W FUSIBLE	D
⚠	R819	QRZ0077-470	47 1/4W FUSIBLE	E
⚠	R819	QRZ0077-470	47 1/4W FUSIBLE	F
⚠	R819	QRZ0077-470	47 1/4W FUSIBLE	G
⚠	R820	QRD125J-682	6.8K 1/2W UNF.CARBON	
⚠	R821	QRX022J-R22A	0.22 2W M.FILM	A
⚠	R822	QRX022J-R22A	0.22 2W M.FILM	A
	R841	QRD167J-104	100K 1/6W CARBON	
	R842	QRD167J-104	100K 1/6W CARBON	
⚠	R843	QRD125J-2R2	2.2 1/2W UNF.CARBON	
⚠	R844	QRD125J-2R2	2.2 1/2W UNF.CARBON	
	R901	QRD167J-681	680 1/6W CARBON	
	R902	QRD167J-681	680 1/6W CARBON	
	R903	QRD167J-562	5.6K 1/6W CARBON	
	R904	QRD167J-562	5.6K 1/6W CARBON	
	R905	QRD167J-123	12K 1/6W CARBON	
	R906	QRD167J-123	12K 1/6W CARBON	
	R907	QRD167J-152	1.5K 1/6W CARBON	
	R908	QRD167J-152	1.5K 1/6W CARBON	
	R909	QRD167J-103	10K 1/6W CARBON	
	R911	QRD167J-332	3.3K 1/6W CARBON	
	R912	QRD167J-473	47K 1/6W CARBON	
	R913	QRD167J-104	100K 1/6W CARBON	
	R914	QRD167J-823	82K 1/6W CARBON	
	R915	QRD167J-473	47K 1/6W CARBON	
	R916	QRD167J-563	56K 1/6W CARBON	
	R917	QRD167J-683	68K 1/6W CARBON	
	R918	QRD167J-392	3.9K 1/6W CARBON	
	R921	QRD167J-224	220K 1/6W CARBON	
	R922	QRD167J-182	1.8K 1/6W CARBON	
⚠	R924	QRG022J-821AM	820 2W O.M.FILM	
	R925	QRD167J-101	100 1/6W CARBON	A
	R925	QRD167J-101	100 1/6W CARBON	B
	R925	QRD167J-161	160 1/6W CARBON	C
	R925	QRD167J-161	160 1/6W CARBON	D
	R925	QRD167J-161	160 1/6W CARBON	E
	R925	QRD167J-161	160 1/6W CARBON	F
	R925	QRD167J-161	160 1/6W CARBON	G
	R926	QRD167J-111	110 1/6W CARBON	A
	R926	QRD167J-111	110 1/6W CARBON	B
	R926	QRD167J-101	100 1/6W CARBON	C
	R926	QRD167J-101	100 1/6W CARBON	D
	R926	QRD167J-101	100 1/6W CARBON	E
	R926	QRD167J-101	100 1/6W CARBON	F
	R926	QRD167J-101	100 1/6W CARBON	G
⚠	R931	QRD14CJ-330S	33 1/4W UNF.CARBON	
	R935	QRD167J-562	5.6K 1/6W CARBON	
	R936	QRD167J-822	8.2K 1/6W CARBON	
	R937	QRD167J-103	10K 1/6W CARBON	
⚠	R941	QRG022J-471A	470 2W O.M.FILM	
⚠	R942	QRG022J-471A	470 2W O.M.FILM	
⚠	R961	QRZ0077-100	10 1/4W FUSIBLE	G
⚠	R962	QRZ0077-100	10 1/4W FUSIBLE	G
⚠	R963	QRZ0077-100	10 1/4W FUSIBLE	G
⚠	R964	QRZ0077-100	10 1/4W FUSIBLE	G
	VR501	QVUB06C-E15B	100K VARIABLE	
	VR502	QVUB06C-E15B	100K VARIABLE	

⚠ SAFETY PARTS

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10044-002	CIRCUIT BOARD	
		E306692-001	SHIELD COVER	
		E307225-001	HEAT SINK	
		E307227-001	HEAT SINK BRACKET (L)	
		E307228-001	HEAT SINK BRACKET (R)	
		E3400-431	SPACER	
		E3400-444	FELT SPACER	
		E406400-001	SHIELD CASE	
		E73525-003	SCREW	
		GBSG3008CC	SCREW	
		SBSG3008CC	SCREW	
	J301	EMN00TV-405AJ2	4P PIN JACK (PHONO,CD)	
	J302	EMN00TV-402AJ2	4P PIN JACK (TAPE1)	
	J303	EMN00TV-405AJ2	4P PIN JACK (TAPE2)	
	J700	EMB90TV-801A	SPEAKER TERMINAL	
	J901	QMS6A40-021	HEADPHONE JACK	
	L331	EQL4004-220	INDUCTOR	
	L751	EQL0001-1R0	INDUCTOR	
	L752	EQL0001-1R0	INDUCTOR	
	L961	EQL0001-R45	INDUCTOR	G
	L962	EQL0001-R45	INDUCTOR	G
	P341	VMC0107-005	CONNECTOR (5PIN)	
	P402	VMC0107-006	CONNECTOR (6PIN)	
	P806	VMC0107-004	CONNECTOR (4PIN)	
	S301	ESP0001-018	TACT SWITCH (POWER)	
	S401	ESP0001-018	TACT SWITCH (MEMORY)	
	S402	ESP0001-018	TACT SWITCH (AUTO MEMORY)	
	S403	ESP0001-018	TACT SWITCH (FM)	
	S404	ESP0001-018	TACT SWITCH (AM)	
	S405	ESP0001-018	TACT SWITCH (MODE)	
	S406	ESP0001-018	TACT SWITCH (TUNING UP)	
	S407	ESP0001-018	TACT SWITCH (TUNING DOWN)	
	S408	ESP0001-018	TACT SWITCH (1)KEY	
	S409	ESP0001-018	TACT SWITCH (2)KEY	
	S410	ESP0001-018	TACT SWITCH (3)KEY	
	S411	ESP0001-018	TACT SWITCH (4)KEY	
	S412	ESP0001-018	TACT SWITCH (5)KEY	
	S413	ESP0001-018	TACT SWITCH (6)KEY	
	S414	ESP0001-018	TACT SWITCH (7)KEY	
	S415	ESP0001-018	TACT SWITCH (8)KEY	

⚠ SAFETY PARTS

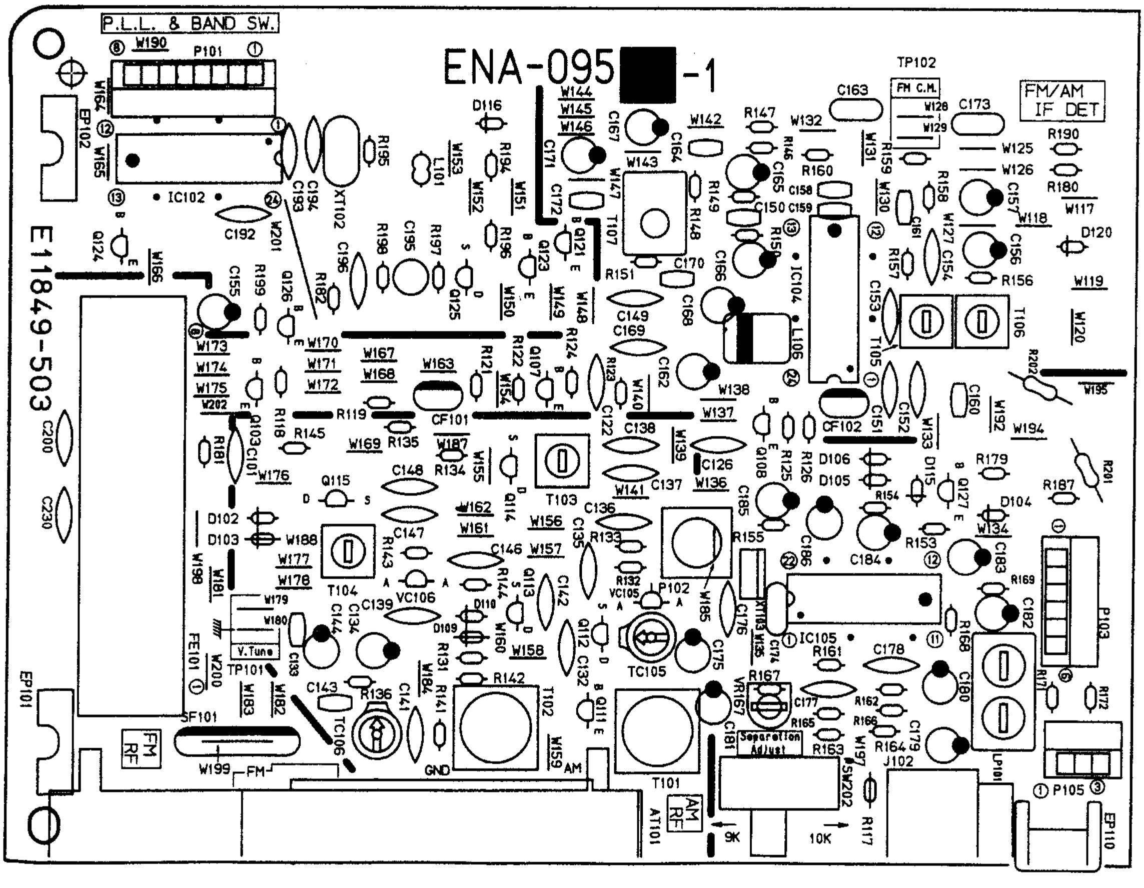
Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	S416	ESP0001-018	TACT SWITCH (9)KEY	
	S417	ESP0001-018	TACT SWITCH (10)KEY	
	S418	ESP0001-018	TACT SWITCH (+10)KEY	
	S421	ESP0001-018	TACT SWITCH (LOUDNESS)	
	S422	ESP0001-018	TACT SWITCH (SURROUND)	
	S423	ESP0001-018	TACT SWITCH (BARANCE L)	
	S424	ESP0001-018	TACT SWITCH (BARANCE R)	
	S427	ESP0001-018	TACT SWITCH (PHONO)	
	S428	ESP0001-018	TACT SWITCH (CD)	
	S429	ESP0001-018	TACT SWITCH (TAPE1)	
	S430	ESP0001-018	TACT SWITCH (TAPE2)	
	EP801	E70859-001	EARTH PLATE	
	EP802	E70859-001	EARTH PLATE	G
	EP803	E70225-001	EARTH PLATE	G
	FL401	ELU0001-096	FL TUBE	
	FW101	EWR38B-30KST	FLAT WIRE (8PIN)	
	FW103	EWR36B-20KST	FLAT WIRE (6PIN)	
	FW105	EWR33B-40KST	FLAT WIRE (3PIN)	C
	FW341	EWR35B-35LST	FLAT WIRE (5PIN)	
	FW401	EWR35B-16LST	FLAT WIRE (5PIN)	
	FW402	EWR36B-16LST	FLAT WIRE (6PIN)	
	FW403	EWR33B-13SST	FLAT WIRE (3PIN)	
	FW702	EWR35B-50SST	FLAT WIRE (5PIN)	
	FW805	EWR33B-30LST	FLAT WIRE (3PIN)	
	FW806	EWR34B-25LST	FLAT WIRE (4PIN)	
	FW901	EWR33B-35SST	FLAT WIRE (3PIN)	
	FW902	EWR34B-45SST	FLAT WIRE (4PIN)	
	FW903	EWR36B-50SST	FLAT WIRE (6PIN)	
	FW904	EWR36B-35SST	FLAT WIRE (6PIN)	
	RY901	ESK7D24-2120	RELAY	
	SW901	QST4231-E01J2	PUSH SWITCH (SPEAKER1)	
	SW902	QST4231-E01J2	PUSH SWITCH (SPEAKER2)	
	XT401	ECX0072-000EM	RESONATOR	
	XT421	ECX0001-000KS	RESONATOR	

⚠ SAFETY PARTS

■ENA-095☐ Tuner PC Board Ass'y

Note : ENA-095☐ varies according to the areas employed. See note (1) when placing an order.



Note (1)

■ RX-304BK / RX-304LBK

PC Board Ass'y	Designated Areas
ENA-095 I	Other Countries
ENA-095 J	Australia
ENA-095 N	Continental Europe the U.K. (with LW) Germany (with LW)

■ RX-305TN / RX-305LTN

PC Board Ass'y	Designated Areas
ENA-095 H	the U.S.A., Canada
ENA-095 I	Other Countries
ENA-095 J	Australia
ENA-095 N	Continental Europe the U.K. (with LW) Germany (with LW)

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q103	2SC461(B,C)	SILICON HITACHI	
	Q107	2SC535(B,C)	SILICON HITACHI	
	Q108	2SC461(B,C)	SILICON HITACHI	
	Q111	2SD1302(S,T)	SILICON MATSUSHITA	N
	Q112	2SK301(Q,R)	F.E.T MATSUSHITA	
	Q113	2SK301(Q,R)	F.E.T MATSUSHITA	N
	Q114	2SK301(P,Q)	F.E.T MATSUSHITA	N
	Q115	2SK301(P,Q)	F.E.T MATSUSHITA	N
	Q121	AN1A4P	SILICON NEC	N
	Q123	AN1A4P	SILICON NEC	
	Q124	AN1A4P	SILICON NEC	
	Q125	2SK301(Q2)	F.E.T MATSUSHITA	
	Q126	2SC458(D)	SILICON HITACHI	
	Q127	AA1L4M	SILICON	

I.C.s

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC102	LC7218	I.C. SANYO	
	IC104	LA1266A	I.C. SANYO	
	IC105	LA3401	I.C. SANYO	

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D102	1SS119	SILICON HITACHI	N
	D103	1SS119	SILICON HITACHI	N
	D104	1SS119	SILICON HITACHI	
	D105	1SS119	SILICON HITACHI	
	D106	1SS119	SILICON HITACHI	
	D109	1SS119	SILICON HITACHI	N
	D110	1SS119	SILICON HITACHI	N
	D115	1SS119	SILICON HITACHI	
	D116	1SS119	SILICON HITACHI	
	D120	1SS119	SILICON HITACHI	
	VC105	SVC342(L)	VARICAP SANYO	
	VC106	SVC342(L)	VARICAP SANYO	N

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C101	QCF21HP-223	0.022MF 50V CERAMIC	
	C122	QCF21HP-223	0.022MF 50V CERAMIC	
	C126	QCF21HP-223	0.022MF 50V CERAMIC	
	C132	QCS21HJ-561	560PF 50V CERAMIC	
	C133	QCHB1EZ-223	0.022MF 25V CERAMIC	

⚠ SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C134	QETB1EM-106	10MF 25V ELECTRO	
	C135	QCC21EM-223	0.022MF 25V CERAMIC	
	C136	QCT26CH-180	18PF 50V CERAMIC	
	C137	QCT26CH-221	220PF 50V CERAMIC	
	C138	QCT26CH-241	240PF 50V CERAMIC	
	C139	QCC21EM-223	0.022MF 25V CERAMIC	N
	C141	QCS21HJ-270	27PF 50V CERAMIC	N
	C142	QCY21HK-272	2700PF 50V CERAMIC	N
	C143	QCHB1EZ-223	0.022MF 25V CERAMIC	N
	C144	QETB1EM-106	10MF 25V ELECTRO	N
	C146	QCT26CH-680	68PF 50V CERAMIC	N
	C147	QCT26CH-220	22PF 50V CERAMIC	N
	C148	QCT26CH-121	120PF 50V CERAMIC	N
	C149	QCF21HP-223	0.022MF 50V CERAMIC	
	C150	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C151	QCF21HP-223	0.022MF 50V CERAMIC	
	C152	QCF21HP-223	0.022MF 50V CERAMIC	
	C153	QCC21EM-223	0.022MF 25V CERAMIC	
	C154	QCF21HP-223	0.022MF 50V CERAMIC	
	C155	QETB1EM-226	22MF 25V ELECTRO	
	C156	QETB1HM-475	4.7MF 50V ELECTRO	
	C157	QETB1HM-474	0.47MF 50V ELECTRO	
	C158	QCBB1HK-101	100PF 50V CERAMIC	
	C159	QCBB1HK-101	100PF 50V CERAMIC	
	C160	QCBB1HK-221	220PF 50V CERAMIC	
	C161	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C162	QETB1EM-106	10MF 25V ELECTRO	
	C163	QFLB1HJ-332	3300PF 50V MYLAR	
	C164	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C165	QETB1HM-474	0.47MF 50V ELECTRO	
	C166	QETB1HM-225	2.2MF 50V ELECTRO	
	C167	QETB1HM-225	2.2MF 50V ELECTRO	
	C168	QETB1HM-475	4.7MF 50V ELECTRO	
	C169	QCF21HP-223	0.022MF 50V CERAMIC	
	C170	QCHB1EZ-223	0.022MF 25V CERAMIC	
	C171	QETB1EM-106	10MF 25V ELECTRO	
	C172	QCVB1CM-103	0.01MF 16V CERAMIC	
	C173	QFLB1HK-223	0.022MF 50V MYLAR	
	C174	QFLB1HK-473	0.047MF 50V MYLAR	
	C175	QETB1EM-106	10MF 25V ELECTRO	
	C176	QCY21HK-102	1000PF 50V CERAMIC	
	C177	QCS21HJ-561	560PF 50V CERAMIC	H
	C177	QCS21HJ-561	560PF 50V CERAMIC	I
	C177	QCS21HJ-271	270PF 50V CERAMIC	J
	C177	QCS21HJ-271	270PF 50V CERAMIC	N
	C178	QCS21HJ-561	560PF 50V CERAMIC	H
	C178	QCS21HJ-561	560PF 50V CERAMIC	I
	C178	QCS21HJ-271	270PF 50V CERAMIC	J
	C178	QCS21HJ-271	270PF 50V CERAMIC	N
	C179	QETB1HM-225	2.2MF 50V ELECTRO	
	C180	QETB1HM-225	2.2MF 50V ELECTRO	
	C181	QETB1EM-106	10MF 25V ELECTRO	
	C182	QETB1HM-225	2.2MF 50V ELECTRO	
	C183	QETB1HM-105	1MF 50V ELECTRO	
	C184	QETB1HM-105	1MF 50V ELECTRO	
	C185	QETB1HM-225	2.2MF 50V ELECTRO	
	C186	QETB1HM-474	0.47MF 50V ELECTRO	
	C192	QCC21EM-473	0.047MF 25V CERAMIC	
	C193	QCS21HJ-180	18PF 50V CERAMIC	
	C194	QCS21HJ-180	18PF 50V CERAMIC	
	C195	QEN51HM-474	0.47MF 50V NON POLE	
	C196	QCY21HK-102	1000PF 50V CERAMIC	
	C230	QCF21HP-103	0.01MF 50V CERAMIC	

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R117	QRD167J-100	10 1/6W CARBON	
	R118	QRD167J-332	3.3K 1/6W CARBON	
	R119	QRD167J-221	220 1/6W CARBON	
	R121	QRD167J-391	390 1/6W CARBON	
	R122	QRD167J-272	2.7K 1/6W CARBON	
	R123	QRD167J-102	1K 1/6W CARBON	
	R124	QRD167J-681	680 1/6W CARBON	
	R125	QRD167J-332	3.3K 1/6W CARBON	
	R126	QRD167J-221	220 1/6W CARBON	
	R131	QRD167J-331	330 1/6W CARBON	
	R132	QRD167J-103	10K 1/6W CARBON	
	R133	QRD167J-473	47K 1/6W CARBON	
	R134	QRD167J-103	10K 1/6W CARBON	N
	R135	QRD167J-470	47 1/6W CARBON	
	R136	QRD167J-103	10K 1/6W CARBON	
	R141	QRD167J-472	4.7K 1/6W CARBON	N
	R142	QRD167J-331	330 1/6W CARBON	N
	R143	QRD167J-103	10K 1/6W CARBON	N
	R144	QRD167J-473	47K 1/6W CARBON	N
	R145	QRD167J-103	10K 1/6W CARBON	N

⚠ SAFETY PARTS

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R146	QRD167J-560	56 1/6W CARBON	
	R147	QRD167J-103	10K 1/6W CARBON	
	R148	QRD167J-103	10K 1/6W CARBON	
	R149	QRD167J-223	22K 1/6W CARBON	
	R150	QRD167J-103	10K 1/6W CARBON	
	R151	QRD167J-224	220K 1/6W CARBON	
	R153	QRD167J-103	10K 1/6W CARBON	
	R154	QRD167J-103	10K 1/6W CARBON	
	R155	QRD167J-562	5.6K 1/6W CARBON	
	R156	QRD167J-822	8.2K 1/6W CARBON	
	R157	QRD167J-103	10K 1/6W CARBON	
	R158	QRD167J-183	18K 1/6W CARBON	H
	R158	QRD167J-333	33K 1/6W CARBON	I
	R158	QRD167J-333	33K 1/6W CARBON	J
	R158	QRD167J-333	33K 1/6W CARBON	N
	R159	QRD167J-561	560 1/6W CARBON	
	R160	QRD167J-123	12K 1/6W CARBON	H
	R160	QRD167J-123	12K 1/6W CARBON	I
	R160	QRD167J-273	27K 1/6W CARBON	J
	R160	QRD167J-273	27K 1/6W CARBON	N
	R161	QRD167J-124	120K 1/6W CARBON	H
	R161	QRD167J-124	120K 1/6W CARBON	I
	R161	QRD167J-184	180K 1/6W CARBON	J
	R161	QRD167J-184	180K 1/6W CARBON	N
	R162	QRD167J-124	120K 1/6W CARBON	H
	R162	QRD167J-124	120K 1/6W CARBON	I
	R162	QRD167J-184	180K 1/6W CARBON	J
	R162	QRD167J-184	180K 1/6W CARBON	N
	R163	QRD167J-332	3.3K 1/6W CARBON	
	R164	QRD167J-332	3.3K 1/6W CARBON	
	R165	QRD167J-184	180K 1/6W CARBON	H
	R165	QRD167J-184	180K 1/6W CARBON	I
	R165	QRD167J-274	270K 1/6W CARBON	J
	R165	QRD167J-274	270K 1/6W CARBON	N
	R166	QRD167J-184	180K 1/6W CARBON	H
	R166	QRD167J-184	180K 1/6W CARBON	I
	R166	QRD167J-274	270K 1/6W CARBON	J
	R166	QRD167J-274	270K 1/6W CARBON	N
	R167	QRD167J-393	39K 1/6W CARBON	H
	R167	QRD167J-393	39K 1/6W CARBON	I
	R168	QRD167J-103	10K 1/6W CARBON	
	R169	QRD167J-103	10K 1/6W CARBON	
	R171	QRD167J-682	6.8K 1/6W CARBON	
	R172	QRD167J-682	6.8K 1/6W CARBON	
	R179	QRD167J-562	5.6K 1/6W CARBON	
	R180	QRD167J-472	4.7K 1/6W CARBON	
	R181	QRD167J-222	2.2K 1/6W CARBON	
	R182	QRD167J-181	180 1/6W CARBON	
	R187	QRD167J-101	100 1/6W CARBON	
	R190	QRD167J-472	4.7K 1/6W CARBON	
	R194	QRD167J-472	4.7K 1/6W CARBON	
	R195	QRD167J-473	47K 1/6W CARBON	
	R196	QRD167J-103	10K 1/6W CARBON	H
	R196	QRD167J-103	10K 1/6W CARBON	I
	R196	QRD167J-103	10K 1/6W CARBON	J
	R196	QRD167J-222	2.2K 1/6W CARBON	N
	R197	QRD167J-222	2.2K 1/6W CARBON	
	R198	QRD167J-332	3.3K 1/6W CARBON	H
	R198	QRD167J-332	3.3K 1/6W CARBON	I
	R198	QRD167J-332	3.3K 1/6W CARBON	J
	R198	QRD167J-822	8.2K 1/6W CARBON	N
	R199	QRD167J-472	4.7K 1/6W CARBON	
⚠	R201	QRD145J-680S	68 1/4W UNF.CARBON	H
⚠	R201	QRZ0062-680	68 1/4W FUSIBLE	I
⚠	R201	QRZ0062-680	68 1/4W FUSIBLE	J
⚠	R201	QRZ0062-680	68 1/4W FUSIBLE	N
⚠	R202	QRD145J-470S	47 1/4W UNF.CARBON	H
⚠	R202	QRZ0062-470	47 1/4W FUSIBLE	I
⚠	R202	QRZ0062-470	47 1/4W FUSIBLE	J
⚠	R202	QRZ0062-220	22 1/4W FUSIBLE	N
	VR167	QVPE601-104	100K 0.15W VARIABLE	J
	VR167	QVPE601-104	100K 0.15W VARIABLE	N

⚠ SAFETY PARTS

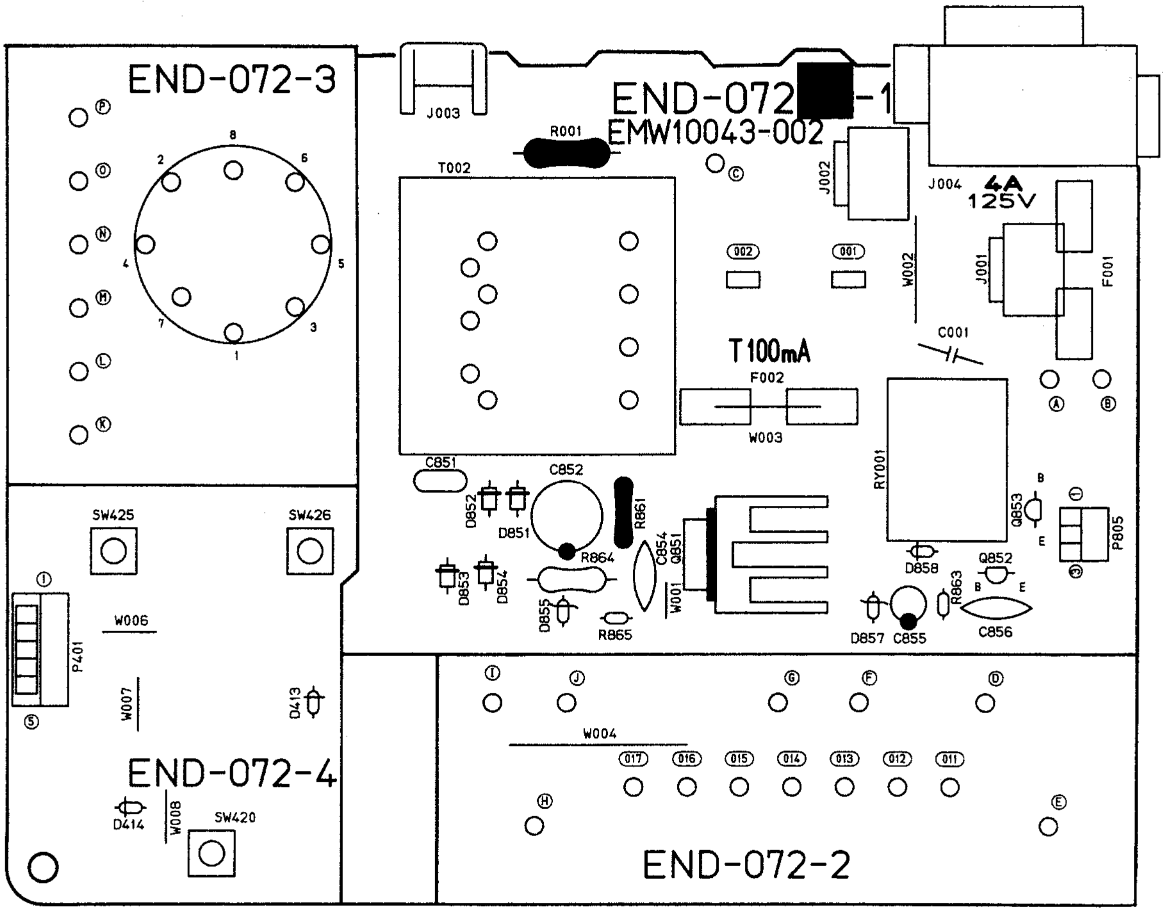
Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		E11849-502(S)	CIRCUIT BOARD	
	J102	QMS3501-021	MINI JACK (COMPULINK)	
	L101	EQL4004-1R0	INDUCTOR	
	L106	EQL3001-102K	INDUCTOR	
	P101	EMV7112-008	CONNECTOR (8PIN)	
	P103	EMV7112-006	CONNECTOR (6PIN)	
	P105	EMV7112-003	CONNECTOR (3PIN)	I
	T101	EQR1111-014	AM RF COIL	
	T102	EQR1111-005	AM RF COIL	N
	T103	EQR1207-015	MW OSC COIL	
	T104	EQR1307-009	LW OSC COIL	N
	T105	EQT2140-012	I.F. TRANSFORMER	
	T106	EQT2140-013	I.F. TRANSFORMER	
	T107	ECB1560-006	CERAMIC FILTER	
	AT101	EMB41YV-401K	ANTENNA TERMINAL	H
	AT101	EMB41YV-401K	ANTENNA TERMINAL	I
	AT101	EMB41YV-401K	ANTENNA TERMINAL	J
	AT101	EMB41YV-301K	ANTENNA TERMINAL	N
	CF101	ECB2123-006R	CERAMIC FILTER	H
	CF101	ECB2123-006R	CERAMIC FILTER	I
	CF101	ECB2118-001R	CERAMIC FILTER	J
	CF101	ECB2118-001R	CERAMIC FILTER	N
	CF102	ECB2123-006R	CERAMIC FILTER	H
	CF102	ECB2123-006R	CERAMIC FILTER	I
	CF102	ECB2118-001R	CERAMIC FILTER	J
	CF102	ECB2118-001R	CERAMIC FILTER	N
	EP101	E70859-001	EARTH PLATE	
	EP102	E70859-001	EARTH PLATE	
	EP110	E70225-001	EARTH PLATE	
	FE101	EAF2203-001	FRONT END	H
	FE101	EAF2203-001	FRONT END	I
	FE101	EAF2203-001	FRONT END	J
	FE101	EAF2203-003	FRONT END	N
	LP101	EQF0101-002	LOW PASS FILTER	
	LP102	EQF0102-001	LOW PASS FILTER	N
	SW202	QSS1201-039	SLIDE SWITCH (CH SPACE SELECTOR)	I
	TC105	ENZ1003-006	TRIMMER	
	TC106	ENZ1003-006	TRIMMER	N
	XT102	ECX0007-200KC	RESONATOR	
	XT103	ECX0000-456KR	RESONATOR	

⚠ SAFETY PARTS

■END-072☐ Power Primary PC Board Ass'y

Note : END-072☐ varies according to the areas employed. See note (1) when placing an order.


END-072-3
END-072■-1
EMW10043-002
J003
R001
T002
J002
J004
4A
125V
J001
F001
W002
002
001
T100mA
F002
W003
C001
RY001
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C851
C852
D852
D851
R861
R864
C854
Q851
W001
D853
D854
D855
R865
Q853
P805
D858
Q852
R863
B
E
D857
C855
C856
SW425
SW426
P401
W006
W007
D413
W004
017
016
015
014
013
012
011
END-072-4
D414
W008
SW420
END-072-2
1
2
3
4
5
6
7
8

Note (1)

■ RX-304BK / RX-304LBK

PC Board Ass'y	Designated Areas
END-072 C	Other Countries
END-072 D	Continental Europe
END-072 E	Australia
END-072 F BS	the U.K. (with LW)
END-072 G	Germany (with LW)

Note (1)

■ RX-305BK / RX-305LBK

PC Board Ass'y	Designated Areas
END-072 A	the U.S.A.
END-072 B	Canada
END-072 C	Other Countries
END-072 D	Continental Europe
END-072 E	Australia
END-072 F BS	the U.K. (with LW)
END-072 G	Germany (with LW)

Transistors

⚠	ITEM	PART NUMBER	DESCRIPTION		AREA
	Q851	2SD1266(Q)	SILICON	MATSUSHITA	C
	Q852	2SC2235(O,Y)	SILICON	TOSHIBA	
	Q853	AA1L3Z	SILICON		

Diodes

⚠	ITEM	PART NUMBER	DESCRIPTION		AREA
	D413	1SS133	SILICON	ROHM	
	D414	1SS133	SILICON	ROHM	
	D851	1SR139-200	SILICON	ROHM	
	D852	1SR139-200	SILICON	ROHM	
	D853	1SR139-200	SILICON	ROHM	
	D854	1SR139-200	SILICON	ROHM	
	D855	MTZ12JC	ZENER	ROHM	C
	D857	MTZ6.2JC	ZENER	ROHM	
	D858	1SS133	SILICON	ROHM	

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
⚠	C001	QCZ9019-472	4700PF		CERAMIC	A
⚠	C001	QCZ9019-472	4700PF		CERAMIC	B
⚠	C001	QCZ9019-472	4700PF		CERAMIC	C
⚠	C001	QCZ9019-472	4700PF		CERAMIC	D
⚠	C001	QCZ9019-472	4700PF		CERAMIC	E
⚠	C001	QCZ9019-472BS	4700PF		CERAMIC	FBS
⚠	C001	QCZ9019-472	4700PF		CERAMIC	G
	C851	QFN32AK-472	4700PF	100V	MYLAR	
	C852	QETB1EM-477	470MF	25V	ELECTRO	A
	C852	QETB1EM-477	470MF	25V	ELECTRO	B

⚠ SAFETY PARTS

Capacitors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C852	QETB1JM-227	220MF 63V ELECTRO	C
	C852	QETB1EM-477	470MF 25V ELECTRO	D
	C852	QETB1EM-477	470MF 25V ELECTRO	E
	C852	QETB1EM-477	470MF 25V ELECTRO	FBS
	C852	QETB1EM-477	470MF 25V ELECTRO	G
	C854	QCF21HP-472	4700PF 50V CERAMIC	C
	C855	QETB1CM-476	47MF 16V ELECTRO	
	C856	QCF21HP-472	4700PF 50V CERAMIC	

Resistors

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
⚠	R001	QRC128K-275EM	2.7M 1/2W COMPOSI	A
⚠	R001	QRC128K-275EM	2.7M 1/2W COMPOSI	B
⚠	R861	QRD14CJ-100S	10 1/4W UNF.CARBON	A
⚠	R861	QRD14CJ-100S	10 1/4W UNF.CARBON	B
⚠	R861	QRZ0076-3R3	3.3 1/4W FUSIBLE	C
⚠	R861	QRZ0077-270	27 1/4W FUSIBLE	D
⚠	R861	QRZ0077-270	27 1/4W FUSIBLE	E
⚠	R861	QRZ0077-270	27 1/4W FUSIBLE	FBS
⚠	R861	QRZ0077-220	22 1/4W FUSIBLE	G
	R863	QRD167J-821	820 1/6W CARBON	A
	R863	QRD167J-821	820 1/6W CARBON	B
	R863	QRD167J-821	820 1/6W CARBON	C
⚠	R863	QRV144F-8200	1/4W M.FILM	D
⚠	R863	QRV144F-8200	1/4W M.FILM	E
⚠	R863	QRV144F-9100	1/4W M.FILM	FBS
⚠	R863	QRV144F-8200	1/4W M.FILM	G
⚠	R864	QRG012J-272A	2.7K 1W O.M.FILM	C
	R865	QRD167J-200	20 1/6W CARBON	E
	R865	QRD167J-200	20 1/6W CARBON	FBS

⚠ SAFETY PARTS

Others

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		E65508-002	TAB	
		EMG7331-001	FUSE CLIP	A
		EMW10043-002(S)	CIRCUIT BOARD	A
⚠		ETP1000-41JA	POWER TRANSFORMER	A
		EMG7331-001	FUSE CLIP	B
		EMW10043-002(S)	CIRCUIT BOARD	B
⚠		ETP1000-41JA	POWER TRANSFORMER	B
		EMG7331-001	FUSE CLIP	C
		EMW10043-002(S)	CIRCUIT BOARD	C
⚠		ETP1000-41ZB	POWER TRANSFORMER	C
		E70945-H40B	HEAT SINK	C
⚠		QSR0085-018	VOLTAGE SELECTOR	C
		SBSG3010CC	SCREW	C
		EMG7331-001	FUSE CLIP	D
		EMW10043-002(S)	CIRCUIT BOARD	D
⚠		ETP1000-41EA	POWER TRANSFORMER	D
		E67132-T2R0	FUSE LABEL	D
		EMG7331-001	FUSE CLIP	E
		EMW10043-002(S)	CIRCUIT BOARD	E
⚠		ETP1000-41EA	POWER TRANSFORMER	E
		E67132-T2R0	FUSE LABEL	E
		EMG7331-001	FUSE CLIP	FBS
		EMW10043-002BSS	CIRCUIT BOARD	FBS
⚠		ETP1000-41EABS	POWER TRANSFORMER	FBS
		E67132-T2R0	FUSE LABEL	FBS
		EMG7331-001	FUSE CLIP	G
		EMW10043-002(S)	CIRCUIT BOARD	G
⚠		ETP1000-41EA	POWER TRANSFORMER	G
		E67132-T2R0	FUSE LABEL	G
	J001	EMV5137-002	PLUG ASSY	C
	J002	EMV5137-002	PLUG ASSY	D
	J002	EMV5137-002	PLUG ASSY	E
	J002	EMV5137-002	PLUG ASSY	FBS
	J002	EMV5137-002	PLUG ASSY	G
	J003	E70225-001	EARTH PLATE	
⚠	J004	QMCA002-E02S	AC OUTLET	A
⚠	J004	QMCA002-E02S	AC OUTLET	B
	J004	QMCA002-E01S	AC OUTLET	C
	P401	VMC0107-005	CONNECTOR (5PIN)	
	P805	VMC0107-003	CONNECTOR (3PIN)	
	RY001	ESK1D12-116M	RELAY	A
	RY001	ESK1D12-116M	RELAY	B
	RY001	ESK1D12-116M	RELAY	C
	RY001	ESK1D12-117M	RELAY	D
	RY001	ESK1D12-117M	RELAY	E
	RY001	ESK1D12-117MBS	RELAY	FBS
	RY001	ESK1D12-116M	RELAY	G
	SW420	ESP0001-018	TACT SWITCH (MUTING)	
	SW425	ESP0001-018	TACT SWITCH (VOLUME DOWN)	
	SW426	ESP0001-018	TACT SWITCH (VOLUME UP)	

⚠ SAFETY PARTS

Accessories List

■ RX-304BK / RX-304LBK

⚠	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1667A	Instruction Book	1		Except LBS
	E30580-1667ABS	Instruction Book	1		LBS
	BT20060	Warranty Card	1		LBS
	BT-20117	Warranty Card	1		LG
	BT-20122	Audio Warranty Card	1	for New Zealand	A
	BT-20122-1	LTD Sticker	1	for New Zealand	A
	BT20066A	EEC Agency	1		LBS
	E43486-340A	Safety Sheet	1		LBS
	E43486-371A	Sheet	1		LBS
⚠	EMC0202-001BS	AC Plug	1		LBS
	E35497-015	Caution Sheet	1	220V	U
⚠	QMF51E2-4R0J1	Fuse	1		U
	E67142-T4R0	Fuse Label	1		U
⚠	E04056	Siemens Plug	1		U
	QZL1008-001	FTZ Information Sheet	1		LG
	E67007-001	Wire Antenna	1		LG
	EWP502-001	Built in Antenna	1		Except LG
	EMZ2001-011	Adapter	1		LE, LEF, LBS
	EQB4001-015	AM Loop Antenna	1		
	UM-4NJ-2PSA	Battery	1		
	RM-SR305U	Remote Controller	1		
	QPGA005-00703	Envelope	1	for Fuse and Fuse Label	U
	E41202-2	Envelope	2		Except LBS
	E41202-2B	Envelope	2		LBS

The Marks for Designated Areas

A··················Australia
LE, LEF·······Continental Europe
LG················Germany (with LW)
LBS·············the U.K. (with LW)
U·················Other Countires
No mark indicates all areas.

⚠ Safety Parts

■ RX-305TN / RX-305LTN

⚠	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1666A	Instruction Book	1		J
	E30580-1667A	Instruction Book	1		Except J , LBS
	E30580-1667ABS	Instruction Book	1		LBS
	BT-20048D	Warranty Card	1		J
	BT-20025K	Warranty Card	1		C
	BT-20117	Warranty Card	1		LG
	BT20060	Warranty Card	1		LBS
	BT-20122	Audio Warranty Card	1	for New Zealand	A
	BT-20122-1	LTD Sticker	1	for New Zealand	A
	BT-20108A	Service Information Card	1		J
	BT-20044G	Safety Instruction Sheet	1		J
	BT20071A	Service Center List	1		C
	BT20066A	EEC Agency	1		LBS
	E43486-340A	Safety Sheet	1		LBS
	E43486-371A	Sheet	1		LBS
⚠	EMC0202-001BS	AC Plug	1		LBS
	E35497-015	Caution Sheet	1	220V	U
⚠	QMF51E2-4R0J1	Fuse	1		U
	E67142-T4R0	Fuse Label	1		U
⚠	E04056	Siemens Plug	1		U
	QZL1008-001	FTZ Information Sheet	1		LG
	E67007-001	Wire Antenna	1		LG
	EWP502-001	Built in Antenna	1		Except LG
	EMZ2001-011	Adapter	1		LE , LBS
	EQB4001-015	AM Loop Antenna	1		
	UM-4NJ-2PSA	Battery	1		
	RM-SR305U	Remote Controller	1		
	E66416-003	Envelope	1	for Warranty Card	J
	QPGA005-00703	Envelope	1	for Fuse and Fuse Label	U
	E41202-2	Envelope	2		Except LBS
	E41202-2B	Envelope	2		LBS

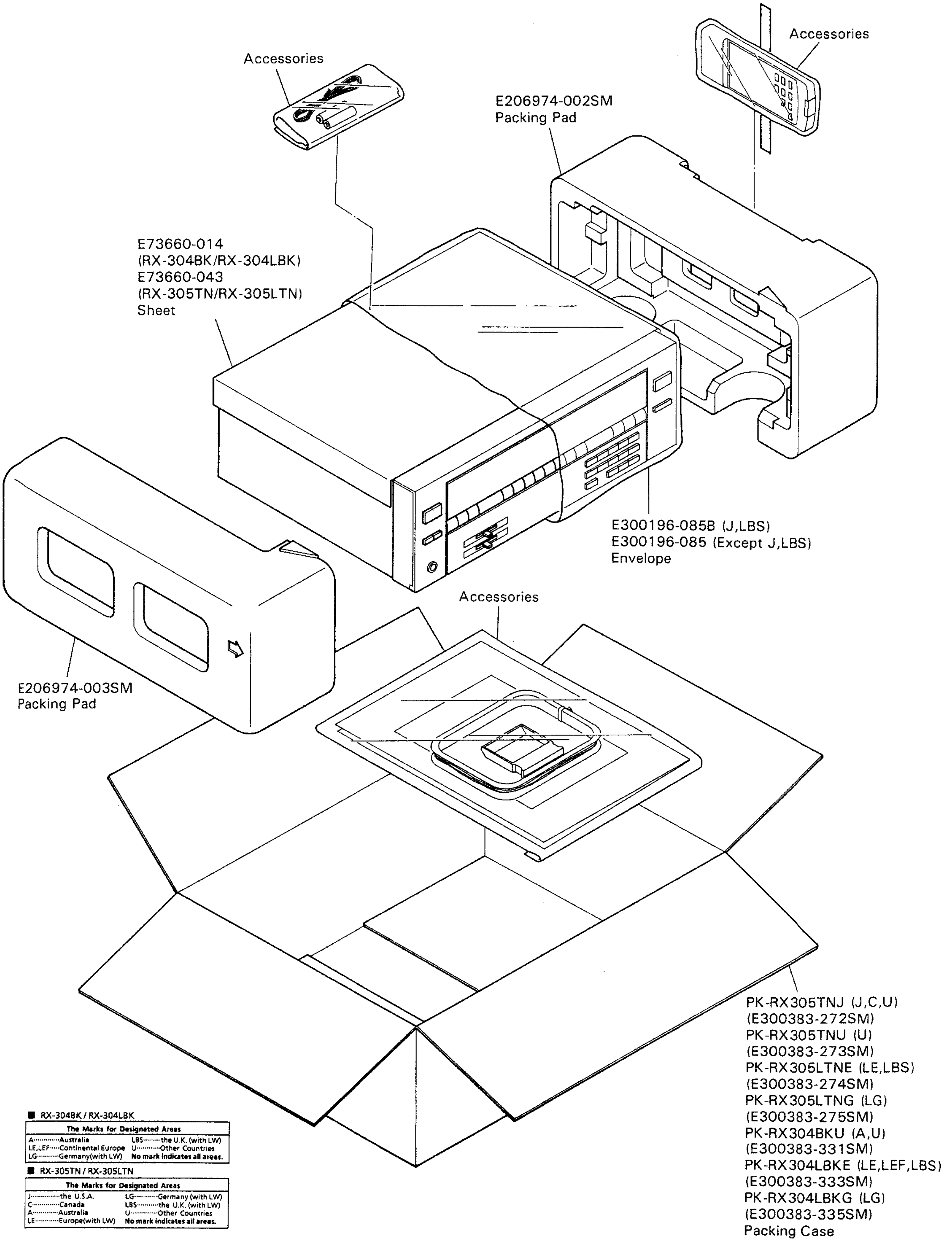
The Marks for Designated Areas

⚠ Safety Parts

J··················the U.S.A.
C··················Canada
A··················Australia
LE·················Europe (with LW)

LG·················Germany (with LW)
LBS················the U.K. (with LW)
U··················Other Countries
No mark indicates all areas.

Packing Materials and Part Numbers


Accessories
Accessories
E206974-002SM
Packing Pad
E73660-014
(RX-304BK/RX-304LBK)
E73660-043
(RX-305TN/RX-305LTN)
Sheet
E300196-085B (J,LBS)
E300196-085 (Except J,LBS)
Envelope
Accessories
E206974-003SM
Packing Pad
PK-RX305TNJ (J,C,U)
(E300383-272SM)
PK-RX305TNU (U)
(E300383-273SM)
PK-RX305LTNE (LE,LBS)
(E300383-274SM)
PK-RX305LTNG (LG)
(E300383-275SM)
PK-RX304BKU (A,U)
(E300383-331SM)
PK-RX304LBKE (LE,LEF,LBS)
(E300383-333SM)
PK-RX304LBKG (LG)
(E300383-335SM)
Packing Case

■ RX-304BK / RX-304LBK

The Marks for Designated Areas	
A··········Australia	LBS·········the U.K. (with LW)
LE,LEF·····Continental Europe	U··········Other Countries
LG··········Germany(with LW)	**No mark indicates all areas.**

■ RX-305TN / RX-305LTN

The Marks for Designated Areas	
J··········the U.S.A.	LG··········Germany (with LW)
C··········Canada	LBS·········the U.K. (with LW)
A··········Australia	U··········Other Countries
LE··········Europe(with LW)	**No mark indicates all areas.**

— MEMO —

JVC

SERVICE MANUAL

COMPUTER CONTROLLED RECEIVER

RX-304BK/RX-304LBK
RX-305TN/RX-305LTN

Supplement

This supplement covers those error parts which were found in the Schematic Diagram and Parts List of the Service Manual RX-304BK/RX-304LBK,RX-305TN/RX-305LTN (No. 20215).

Please attach this supplement to your service manual.

PARTS LIST (Page 2-19)

Parts Name	INCORRECT	CORRECT
Fuse	QMF51E2-4R0J1	QMF51E2-2R5J1
Fuse Label	E67142-T4R0	E67142-T2R5

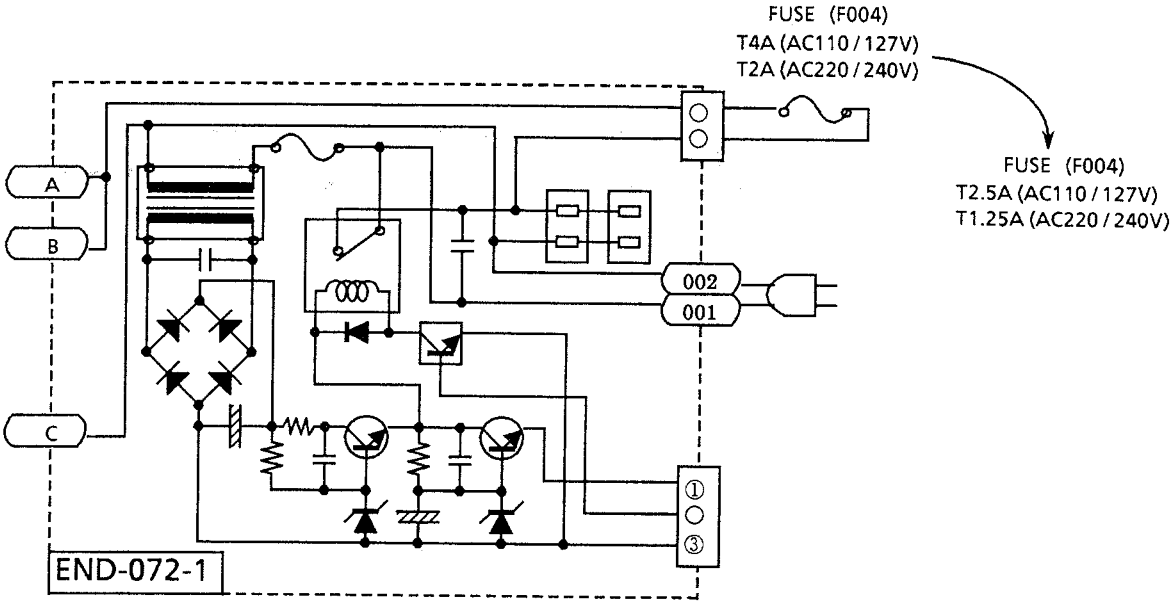
VICTOR COMPANY OF JAPAN , LIMITED

AUDIO PRODUCTS DIVISION, YAMATO PLANT, 1644, SHIMOTSURUMA, YAMATO-SHI, KANAGAWA-KEN, 242, JAPAN

SCHEMATIC DIAGRAM (System Control & Power Primary Section)

Version	P.C.Board No.	Symbol No.	INCORRECT	CORRECT
U (220/240V)	END-072-1	F004	2A	1.25A
U (110/127V)	END-072-1	F004	4A	2.5A
E,G,BS,A	END-072-1	F001	2A	1.25A

(U) OTHER COUNTRIES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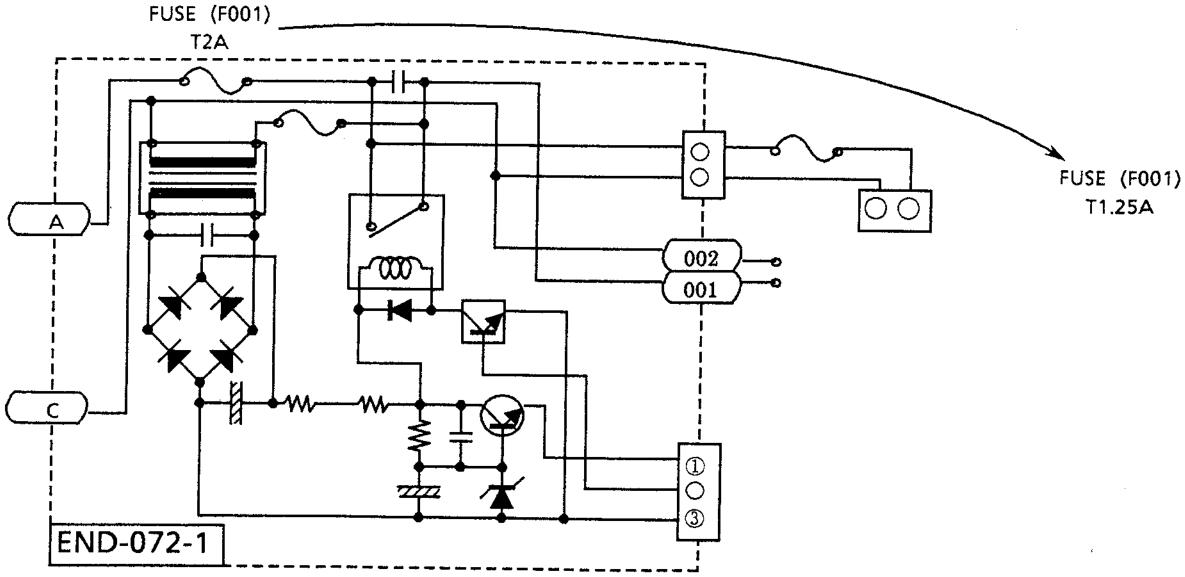
T4A (AC110/127V)
T2A (AC220/240V)

FUSE (F004)
T2.5A (AC110/127V)
T1.25A (AC220/240V)

(E,A,G,BS) (LE) EUROPE (LG) GERMANY AC230V 50Hz
(A) AUSTRALIA (LBS) U.K. AC240V 50Hz


FUSE (F001)
T2A

FUSE (F001)
T1.25A

RX-304BK/RX-304LBK
RX-305TN/RX-305LTN

JVC

SERVICE MANUAL

COMPUTER CONTROLLED RECEIVER

RX-304BK/RX-304LBK
RX-305TN/RX-305LTN

Supplement

This supplement covers those error parts which were found in the Schematic Diagram and Parts List of the Service Manual RX-304BK/RX-304LBK,RX-305TN/RX-305LTN (No. 20215).

Please attach this supplement to your service manual.

PARTS LIST (Page 2-19)

Parts Name	INCORRECT	CORRECT
Fuse	QMF51E2-4R0J1	QMF51E2-2R5J1
Fuse Label	E67142-T4R0	E67142-T2R5

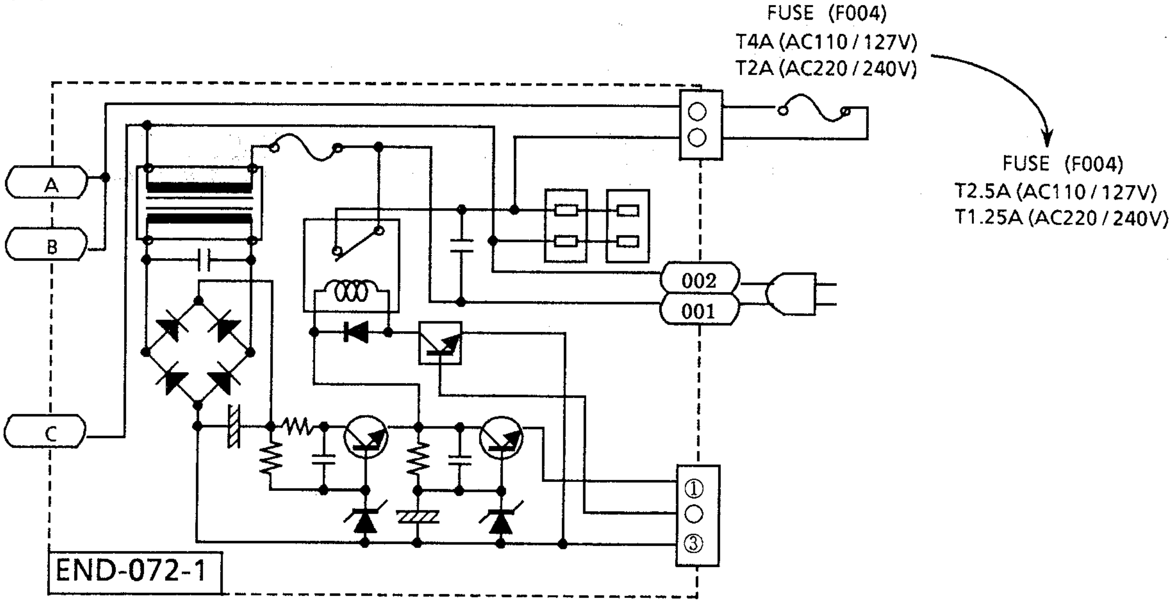
VICTOR COMPANY OF JAPAN, LIMITED
AUDIO PRODUCTS DIVISION, YAMATO PLANT, 1644, SHIMOTSURUMA, YAMATO-SHI, KANAGAWA-KEN, 242, JAPAN

No.20215B
Apr. 1991

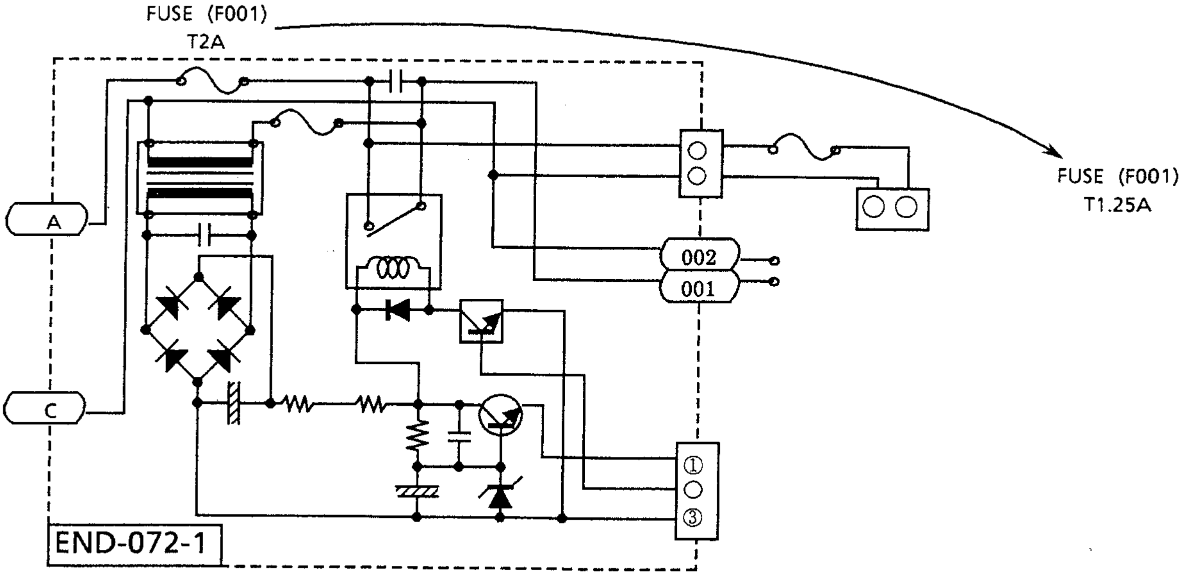
SCHEMATIC DIAGRAM (System Control & Power Primary Section)

Version	P.C.Board No.	Symbol No.	INCORRECT	CORRECT
U (220/240V)	END-072-1	F004	2A	1.25A
U (110/127V)	END-072-1	F004	4A	2.5A
E,G,BS,A	END-072-1	F001	2A	1.25A

(U) OTHER COUNTRIES


FUSE (F004)
T4A (AC110/127V)
T2A (AC220/240V)
FUSE (F004)
T2.5A (AC110/127V)
T1.25A (AC220/240V)
A
B
C
002
001
①
③
END-072-1

(E,A,G,BS) (LE) EUROPE (LG) GERMANY AC230V 50Hz
(A) AUSTRALIA (LBS) U.K. AC240V 50Hz


FUSE (F001)
T2A
FUSE (F001)
T1.25A
A
C
002
001
①
③
END-072-1